

PAVEMENT HISTORICAL DATABASE (PHD) **CONSULTANT** TRAINING

Hosted By:

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PURPOSE

- Define PHD and its functions
- Explain PHD Roles and expectations
- Learn how to use PHD
- Feedback
- Answer Questions

OUTLINE

1 – Background

2 – General Information

3 – Data Entry

4 – Data Owner Overview

5 – Central Office QA

6 – Data Export/Reports Overview

7 – FAQ/Business Rules

8 – Administration

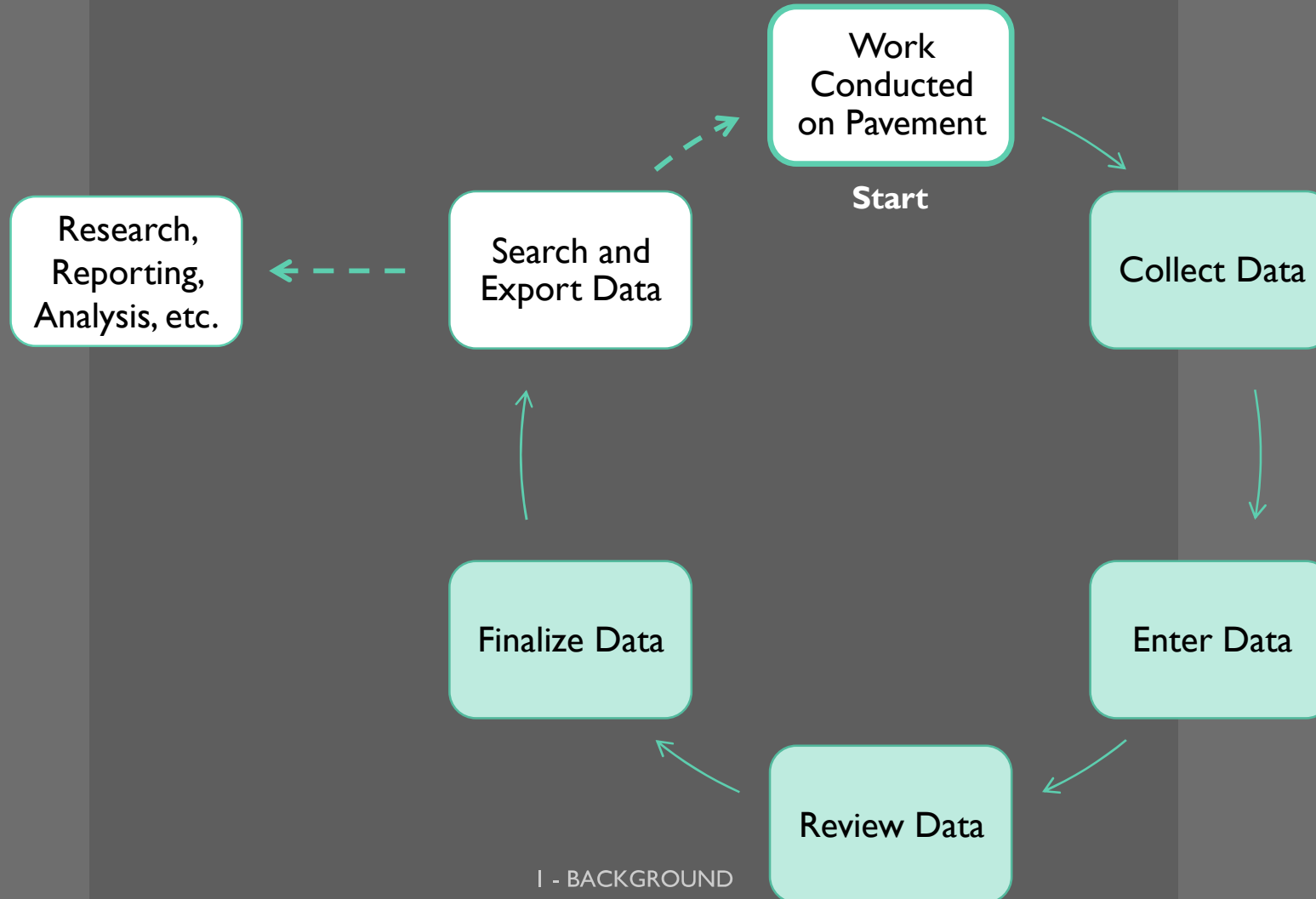
I - BACKGROUND

WHAT IS PHD?

- Pavement Historical Database (PHD)
- MILogin application
- Centralized electronic data warehouse
- “As Built” pavement and material information on MDOT roadways
- Data can be searched, sorted, and exported



PHD PROCESS



PHD PURPOSE

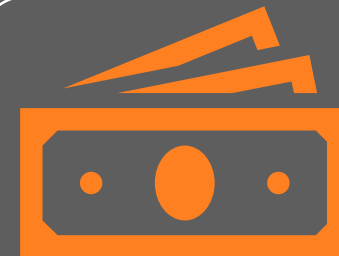
- Provides a robust database of MDOT public asset information
 - Location // Length // Width // Materials
- This can help us be:



Smarter



Faster

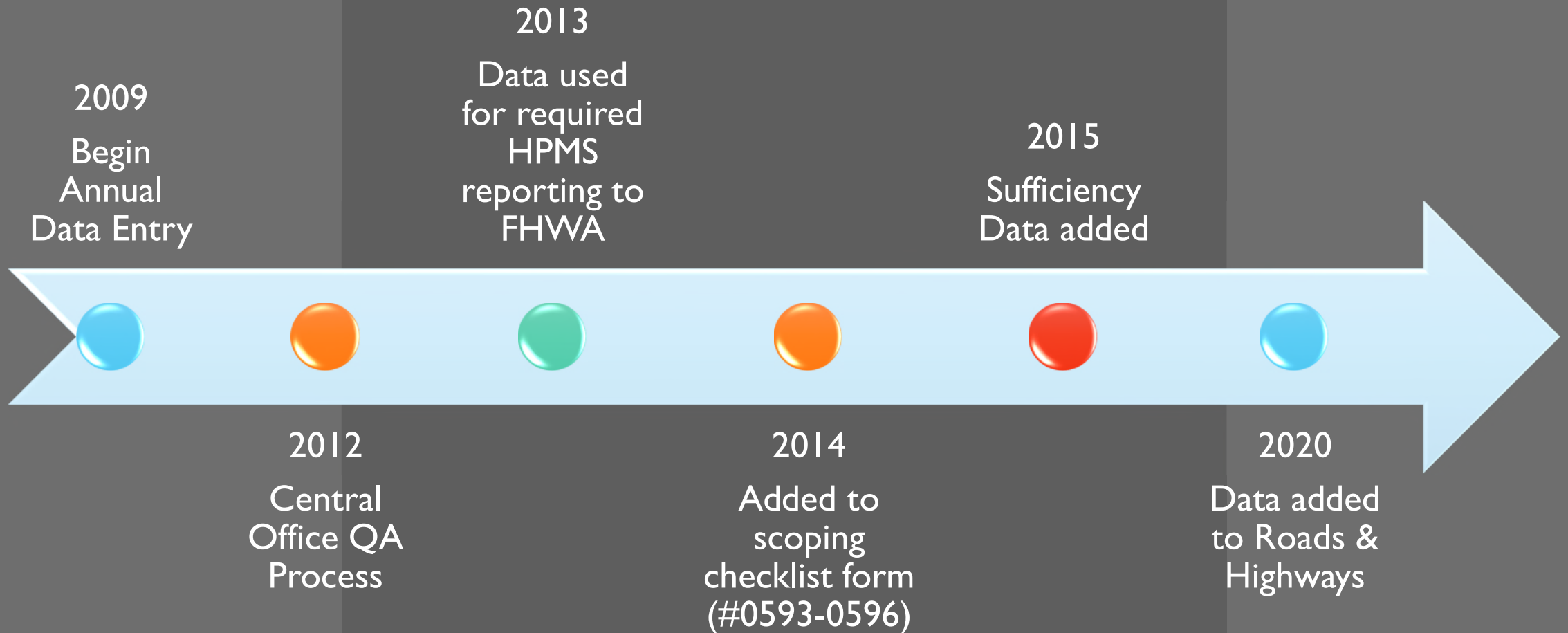


More Efficient

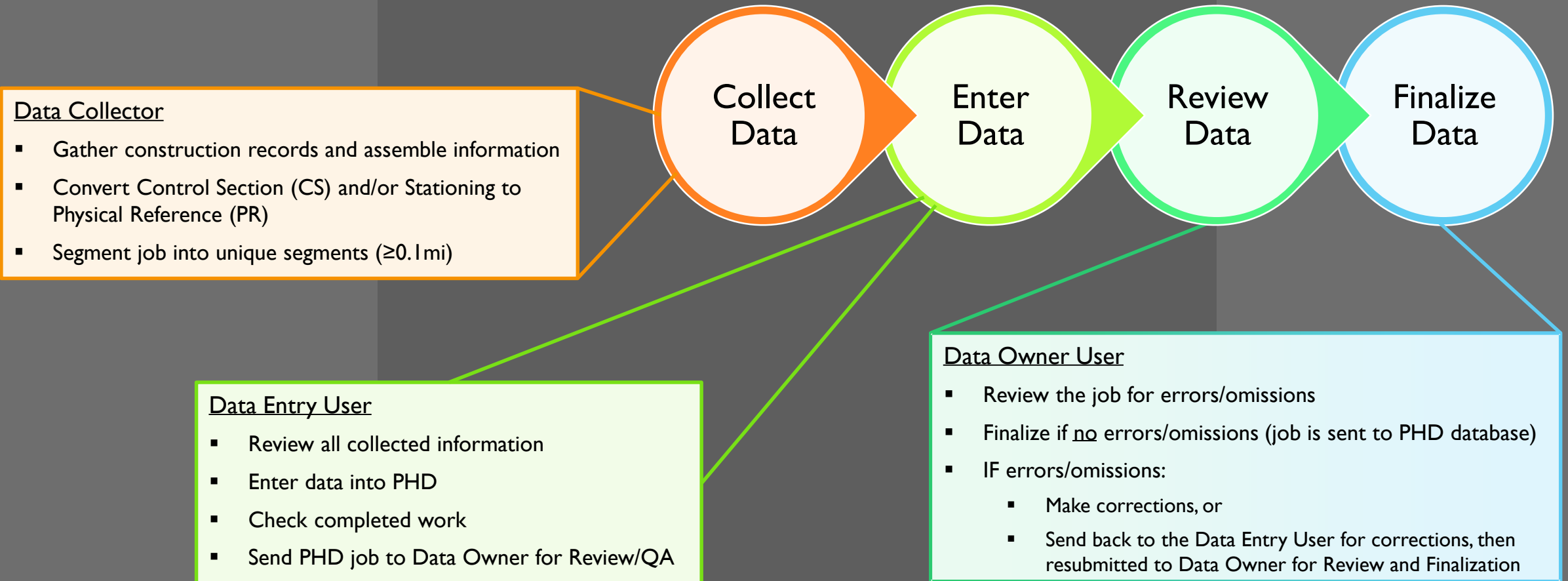
PHD USES

- **HPMS Reporting (Highway Performance Monitoring System)**
- **Roads & Highways**
- Sufficiency Data
- Historical Research
- Scoping, Estimating, Design
- Materials or Work Type Trend Analysis
- Asset Management
- Pavement Management Data Analysis

PHD HISTORY

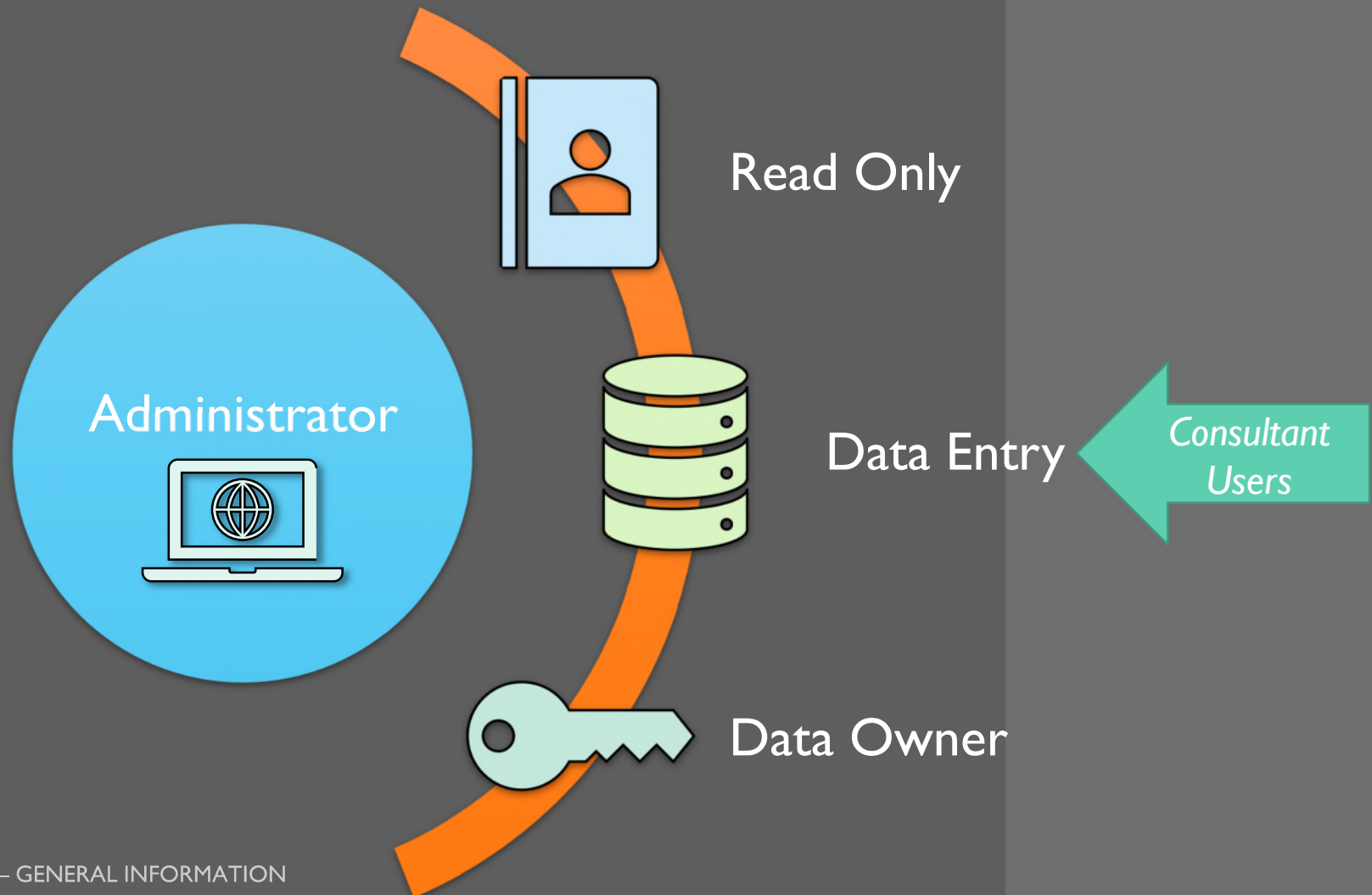


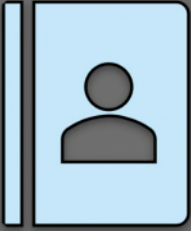
PHD WORKFLOW



2 – GENERAL INFORMATION

PHD USER ROLES (ACCESS LEVEL)



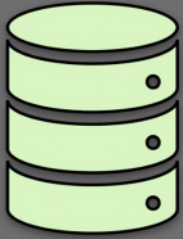


PHD ROLES READ ONLY

- Reports & Searches

- » Export Data
- » Search Segment(s)
- » Construction History
- » Material Information
- » Material Quantity
- » Network Inventory
- » Work Type
- » MAP Reconciliation

- Read Only
 - Can search, export data, and view reports
 - Menu access:
 - Search Segments, Export Data, Reports



PHD ROLES DATA ENTRY

- Post Constr. Data	
»	Create
»	Modify
- Reports & Searches	
»	Export Data
»	Search Segment(s)
»	Construction History
»	Material Information
»	Material Quantity
»	Network Inventory
»	Work Type
»	MAP Reconciliation

- Data Entry
 - Enters project data
 - Submits job for review by Data Owner
 - Can create and modify jobs
 - Can search, export data, and view reports
 - Menu access:
 - Search Segments, Export Data, Reports
 - Create, Modify



PHD ROLES DATA OWNER

- Post Constr. Data

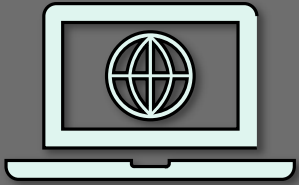
- » Create
- » Modify
- » Review
- » Reassign

- Reports & Searches

- » Export Data
- » Search Segment(s)
- » Construction History
- » Material Information
- » Material Quantity
- » Network Inventory
- » Work Type
- » MAP Reconciliation

- Data Owner

- Reviews jobs submitted by Data Entry users:
 - Verifies job is ready to be Finalized in the database
 - Can Reassign the job if it isn't ready to be Finalized
- Can create and modify jobs
- Can search, export data, and view reports
- Menu access:
 - Search Segments, Export Data, Reports
 - Create, Modify
 - Review, Reassign



PHD ROLES ADMINISTRATOR

- Post Constr. Data

- » Create
- » Modify
- » Review
- » Reassign

- Reports & Searches

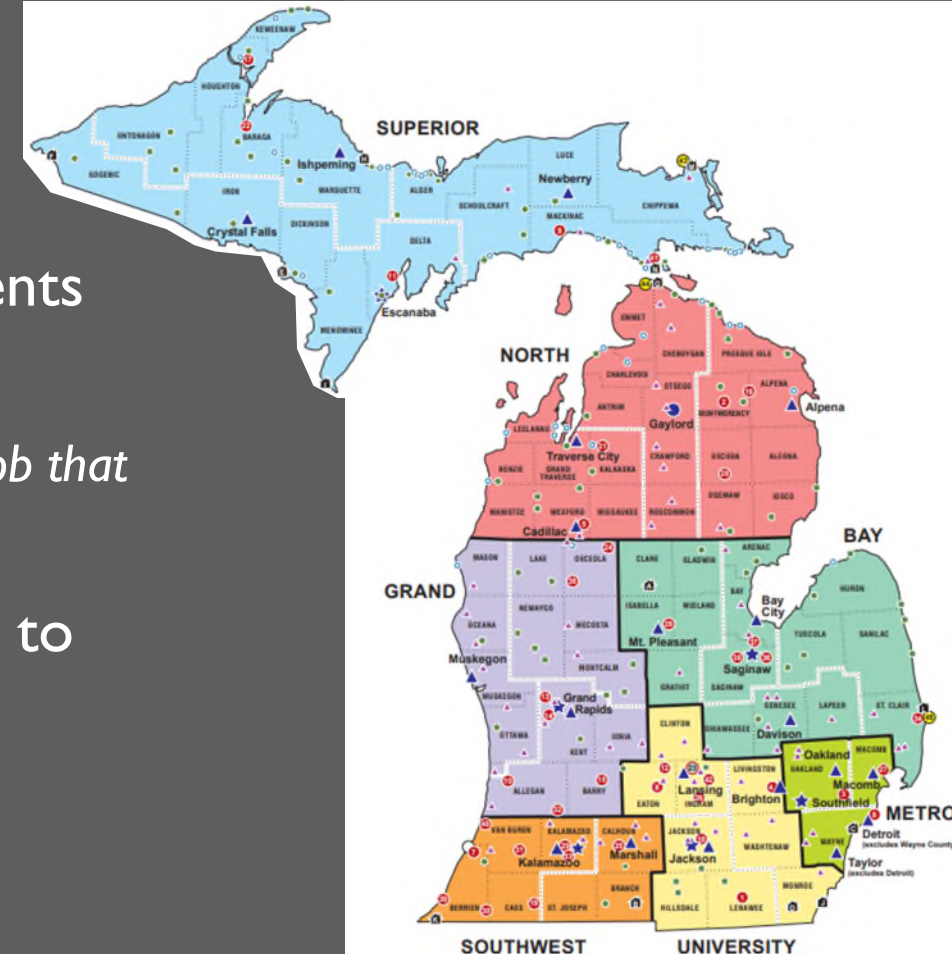
- » Export Data
- » Search Segment(s)
- » Construction History
- » Material Information
- » Material Quantity
- » Network Inventory
- » Work Type
- » MAP Reconciliation

+ Administration

- Administrator
 - Approves PHD access
 - Assigns/modifies User Roles and Assignment Locations
 - Provides statewide assistance
 - Can create and modify attributes, layers, and measurement units
 - Can unlock finalized jobs
 - Menu access:
 - Administration, Reports
 - Review, Reassign, Create, Modify, Search Segment(s), Export Data, Reports

ASSIGNMENT LOCATION

- Job entry is bound by your Assigned Region Location
- Users with TSC assignment can reassign or enter segments anywhere within their Region
 - Example: a user assigned to the Brighton TSC can **enter data** for a job that is within the University Region
- Contact PHD Admin if your Assignment Location needs to be changed

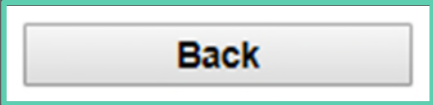
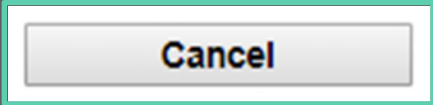


GENERAL CONVENTIONS

- **RED** = Error Message
- **GREEN** = Successful save/update
- Screen tips will appear when mouse pointer is hovered
- **Red asterisk (*)** = data required before saving as Complete
- Column headers can be sorted by selecting the header name
- The % symbol is a “wildcard” used in search/filtering fields, for example:
 - 8% finds any number (word or phrase) beginning with an “8”

GENERAL CONVENTIONS (CONT.)

- **Back:**
 - Returns to the previous screen
 - WARNING: Changes will still appear if the screen is reentered, but they are not saved.
Data will be lost if the project is exited without saving the changes
- **Cancel:**
 - Leaves the current job and takes the user to the initial submenu screen
 - WARNING: Entered **data will be lost if it is not saved**

A rectangular button with a light gray background and a thin black border. The word "Back" is centered in a bold, black, sans-serif font.A rectangular button with a light gray background and a thin black border. The word "Cancel" is centered in a bold, black, sans-serif font.

TIME ENTRY



- Charge time to the **job number** being entered
- Applies to time spent:
 - Gathering data for PHD data entry or review, Entering data, and/or QA of entered data
- *Note: MDOT users use SIGMA. For PHD, they use the “Reporting” box & code 5911200055*

3 – DATA ENTRY

WHEN TO COLLECT & ENTER DATA

Ideally

- **Collect:** during construction
- **Enter:** during construction & complete entry after job complete
- Annual due date is **January 31st** for projects completed the prior year
 - Allows MDOT to meet annual federal reporting requirements (HPMS) & entry is completed before start of next construction season
 - Exceptions:
 - Projects built over **multiple years**. **Complete entry of multi-year projects when project is finished**
 - Projects with **new/lengthened PR** info. Complete when the next framework version is available

WHAT IS ENTERED?

- All projects with **pavement work** on MDOT trunkline for mainline, shoulder, or curb & gutter (≥ 0.1 mile) is **required**
 - MAP and NonMAP projects
 - Projects < 0.1 mile are *optional*
 - No local road work
- Current projects as they are built

WHAT IS ENTERED? (CONT.)

- Only work/materials assigned to **that job number**
 - Exceptions: Surface Type (identifies entire underlying cross-section) and Median
- Projects with multiple job numbers - **enter each job number separately**, for example:
 - A project is let with a job number for intersection improvements and another job number for work outside the intersection
- Job numbers without pavement work are not entered
 - *Typically*, these types of jobs don't have pavement work: Freeway lighting, landscaping, signing, etc.

WHAT IS A MAP JOB?

- **MAP** job:
 - Has MDOT job number
 - Job information stored in the MDOT Architecture Project (MAP) database, (i.e. JobNet/MPINS)







WHAT IS A NON MAP JOB?

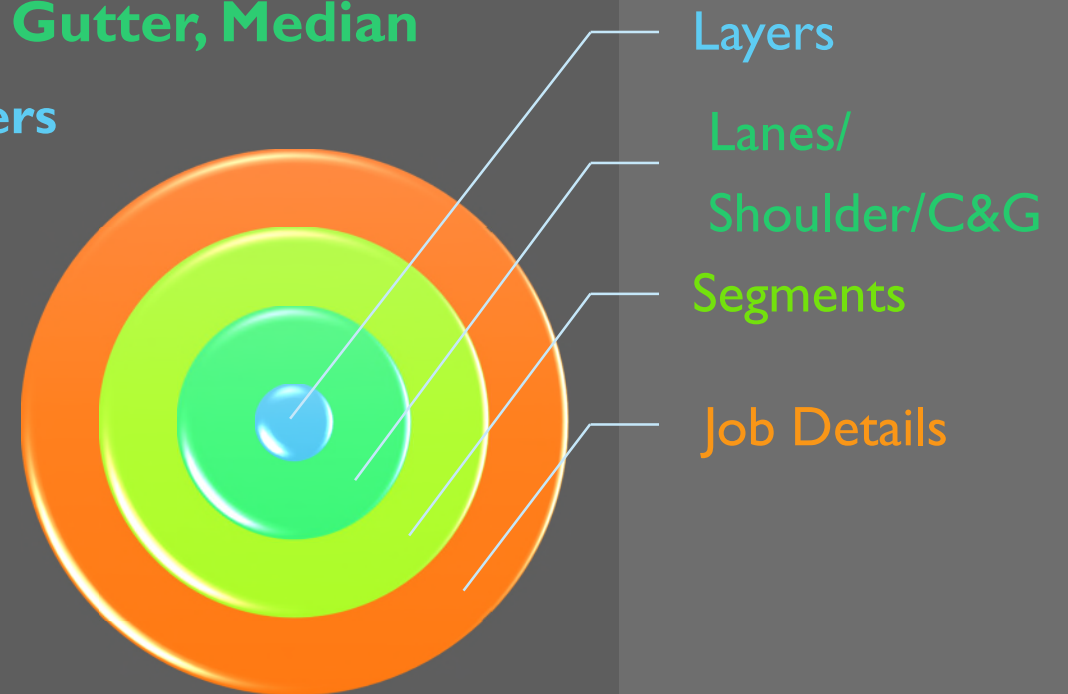
- **Non MAP job:**
 - Does not have information stored in the MAP database
 - Includes these job types:
 - Maintenance-Funded projects (“M” projects)
 - Maintenance forces – MDOT or county
 - Transportation Work Authorizations (TWA)
 - Warranty work
 - Historic (older let projects not in MAP), and
 - Permit work (i.e. widening/turn lane for a development, cross section reconstruct for utility work)
- **Non Map jobs are required for PHD data entry because work occurs on MDOT trunkline**

PHD NON MAP NAMING CONVENTIONS

Project Type	Definition	PHD Naming Convention
Maintenance	Maintenance funded work let through MDOT, performed by MDOT or another agency.	Use the job number including the letter “M” that precedes it.
TWA	Transportation Work Authorization funded.	Use the TWA number . Your region financial analyst can provide the number, or assign a number if needed.
Warranty	Work performed under the terms of a project warranty.	Use the prefix “W” followed by the original 5 or 6 digit job number .
Direct Forces Work	Work performed by MDOT employees or contract county forces.	<p>Create a direct forces work reference number for PHD use only. Use the following conventions: DYYYYCNrouteBMP</p> <ol style="list-style-type: none"> 1. The prefix “D” followed by four digits representing the year. 2. The two digit county number. 3. The route. Use an alpha numeric with a hyphen as separator; for example, “US-31” or “US-31BR”. 4. The beginning milepoint (including decimal point). <p>(There is a twenty character limit.)</p>
Historic	Projects let and constructed by MDOT prior to the implementation of MAP and therefore without MAP job numbers.	Use either the project number from the title sheet of the historic plans or the records used for the data entry.
Permit	Work constructed by others under permit; i.e., widenings for commercial driveways or utilities work.	Use the prefix “P” followed by the last 10 digits of the permit number . The TSC permit agent will be able to provide this information.

DATA HIERARCHY

- **Job Details** (i.e. Job ID, Work Type Code, etc.)
- **Jobs**  **Segments** (i.e. PR from MP to MP)
- **Segments**  **Lanes/Shoulder, Curb & Gutter, Median**
- **Lanes/Shoulder, Curb & Gutter**  **Layers**
- **Layers**  **Attributes**



SEGMENTS IN PHD

- Roadway locations are entered into PHD by their PR number and PR milepoints
 - PR = Physical Reference
 - Number = Unique roadway numerical name
 - Milepoint = Linear location of that referencing system
- Use the MDOT PR Finder for numbers and milepoints



PR-MP

PR: 0336809

Milepoint @ Mouse Click: 0.0711573

Begin Milepoint: 0.0000000

End Milepoint: 0.1370353

Total Length: 0.1370354

Latitude: 42.7408031

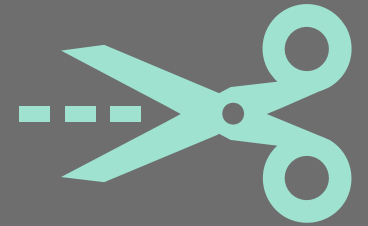
Longitude: -84.5048916

Search Date: 10/23/2020, 8:27 AM

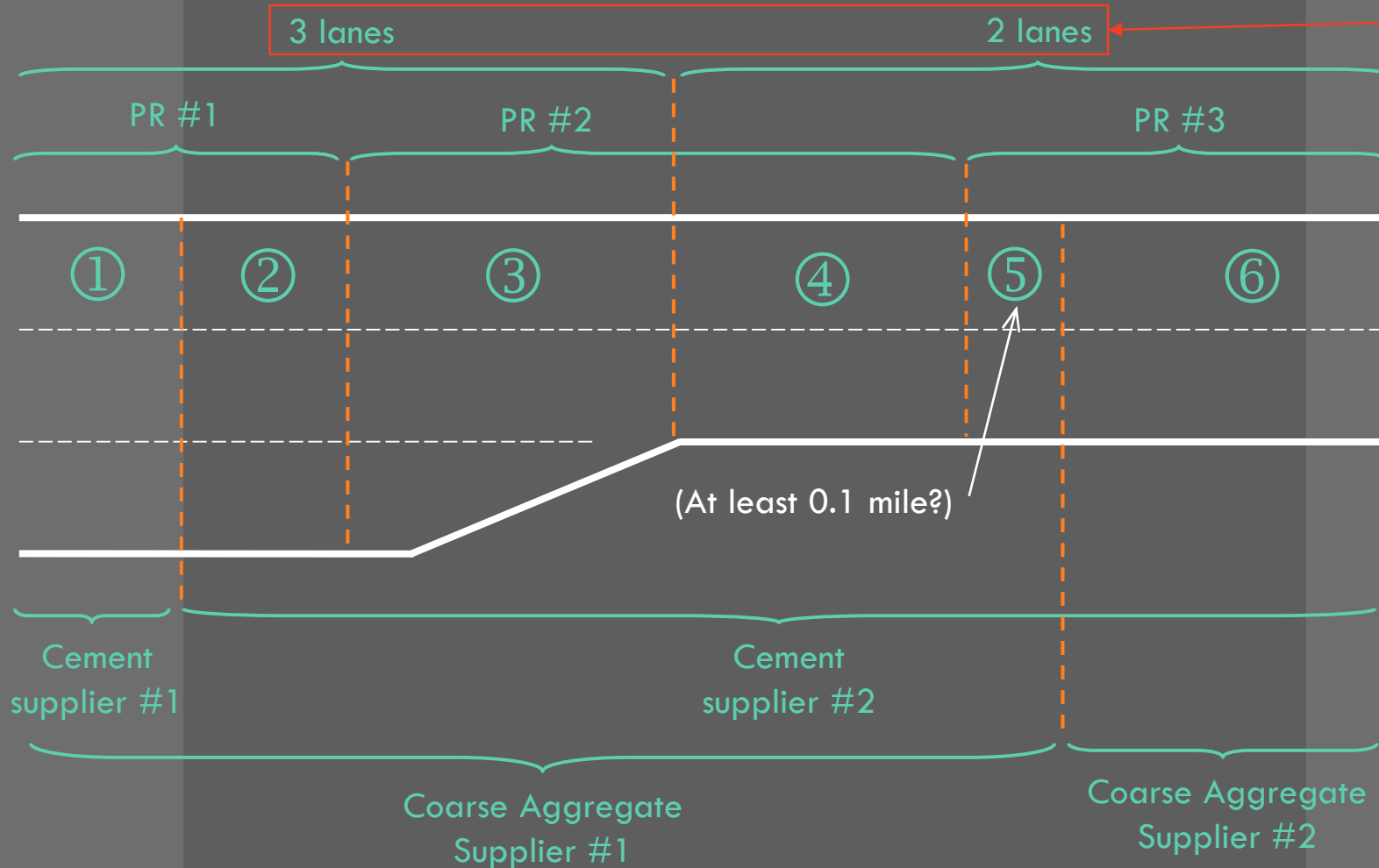
MDOT Next Generation PR Finder

SEGMENTATION

- **New segments or sub segments** are required when changes occur that are >0.10 of a mile
- Changes include:
 - PR number changes
 - Lane changes (number of lanes or lane width)
 - Cross-sectional changes (layer or material changes)
 - Shoulder, Curb & Gutter (new construction or change in existing)
 - Multiple years of construction
 - Median changes when significant (type or major width change)

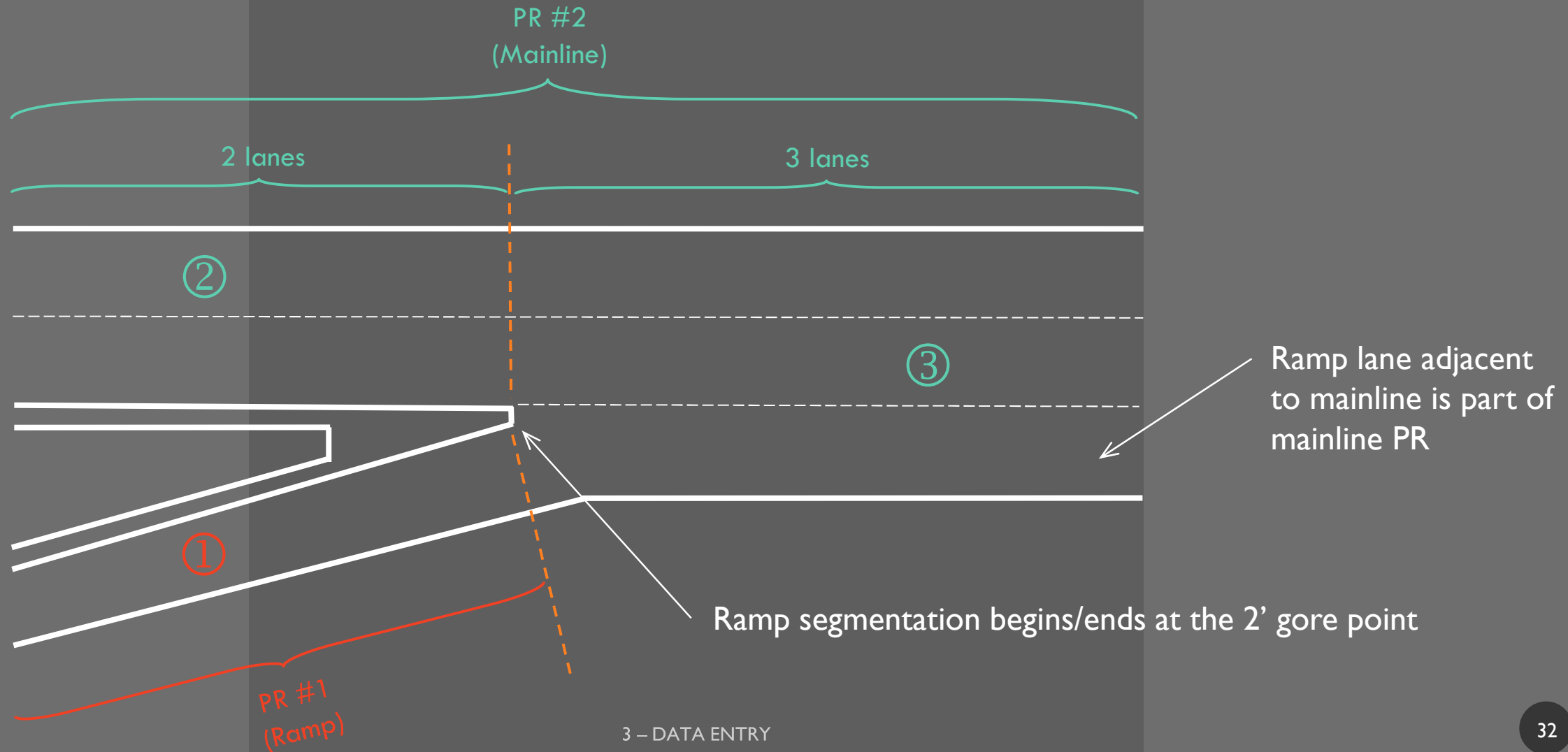


SEGMENTATION EXAMPLE MAINLINE



Automated, so if the job does not change existing lanes, this is already complete!

SEGMENTATION EXAMPLE RAMP



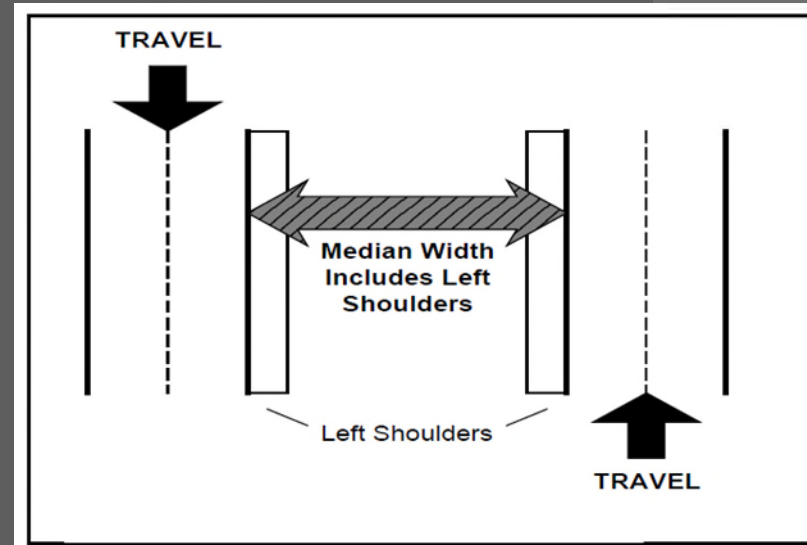
MEDIAN INFORMATION

- Median Types:

- Undivided
- Concrete Barrier
- Guardrail
- Cable Guardrail
- Raised Island with Curb
- Thick, impenetrable Vegetation
- Graded with ditch
- Flat (paved and unpaved)
- N/A – use *this* for segments that cannot have median (i.e. most ramps)
- Other – *input a unique type in a text box below*

- Median Width:

- Average or predominant width including inner shoulders, measured between the inside edges of the leftmost through lanes in both directions, to nearest foot.
- Change if there is a new consistent width.



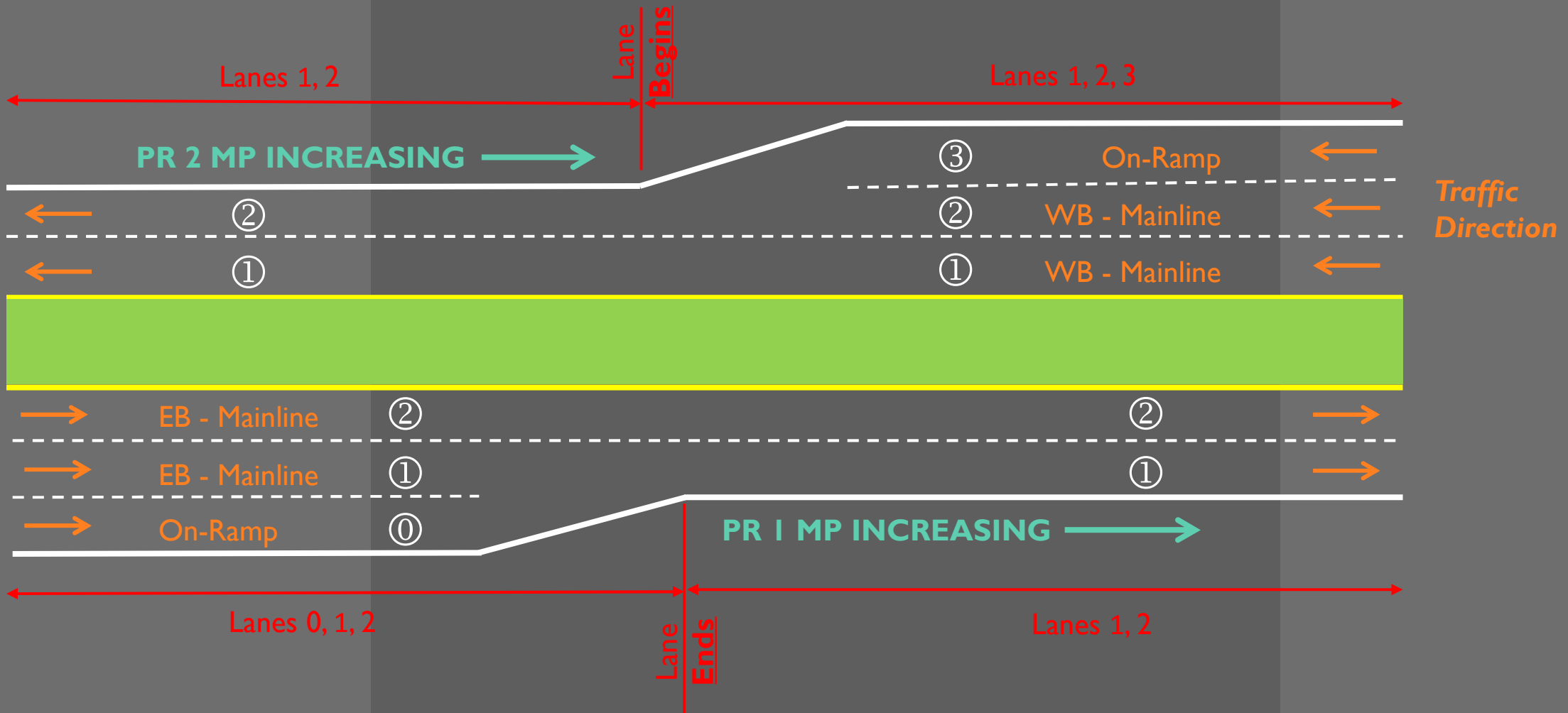
LANE NUMBERING

- Lanes are always numbered right to left facing toward increasing milepoints in the PR segment (no matter the traffic direction)
- Lane 1 is the **right-most through lane** of the PR segment
- Increasing lane numbers 2, 3, etc. are lanes **left** of Lane 1
- Decreasing lane numbers 0, -1, and less are lanes **right** of Lane 1
 - *Examples: ramp lane, passing flare, right turn lane*
- The begin/end taper point is the start/end of the lane

Important because automated segmentation of lanes doesn't always identify numbering correctly

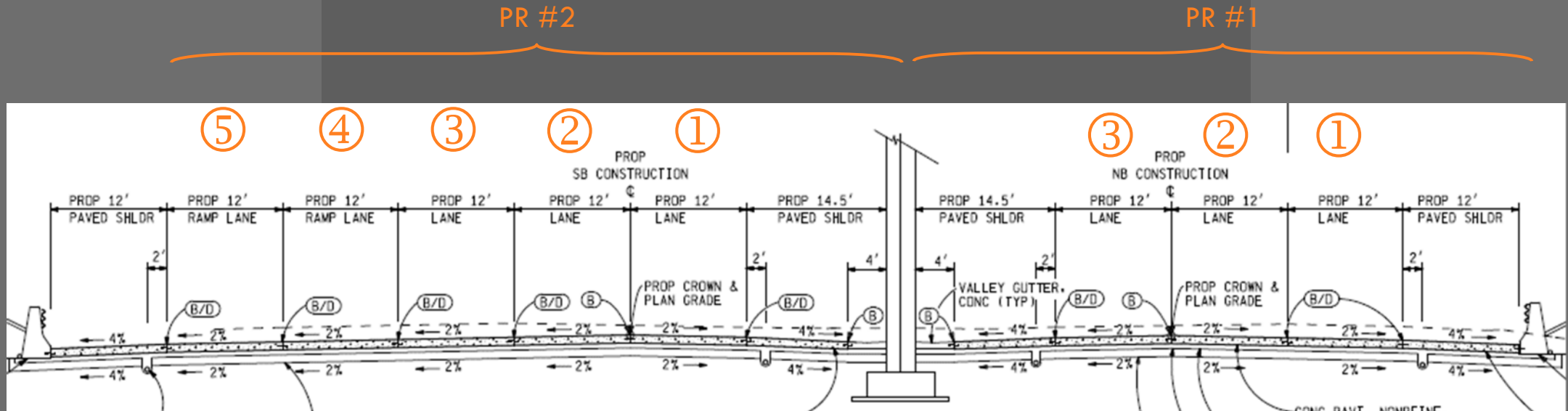
LANE NUMBERING EXAMPLE

Divided Roadway



LANE NUMBERING EXAMPLE

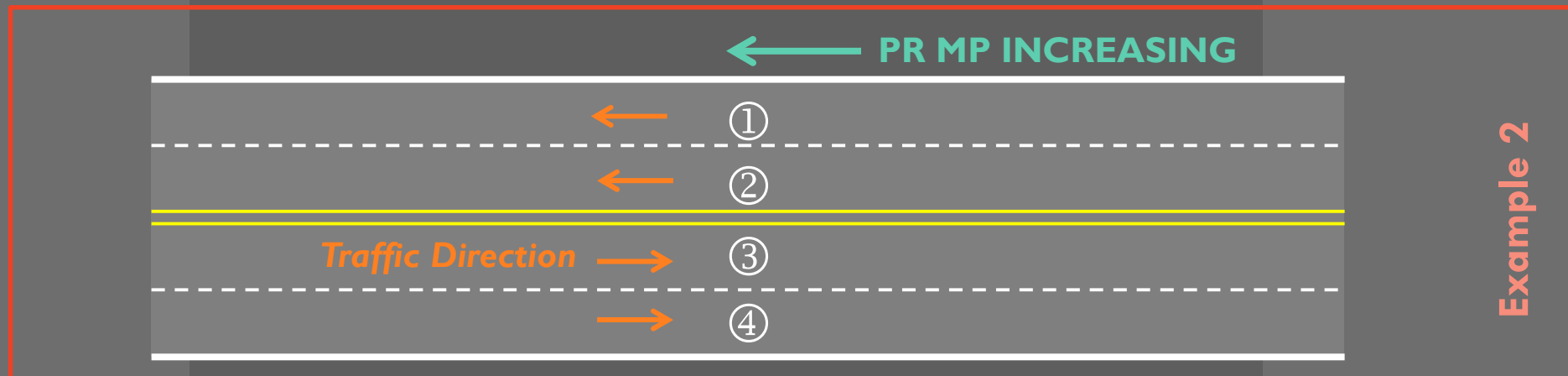
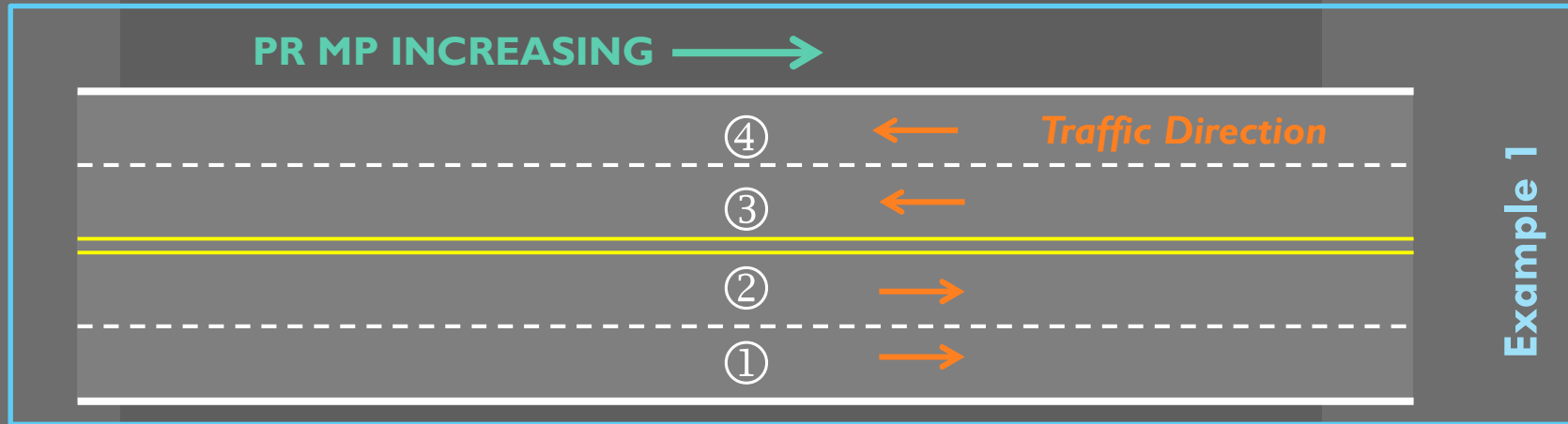
Divided Roadway



(milepoints increasing looking into the page)

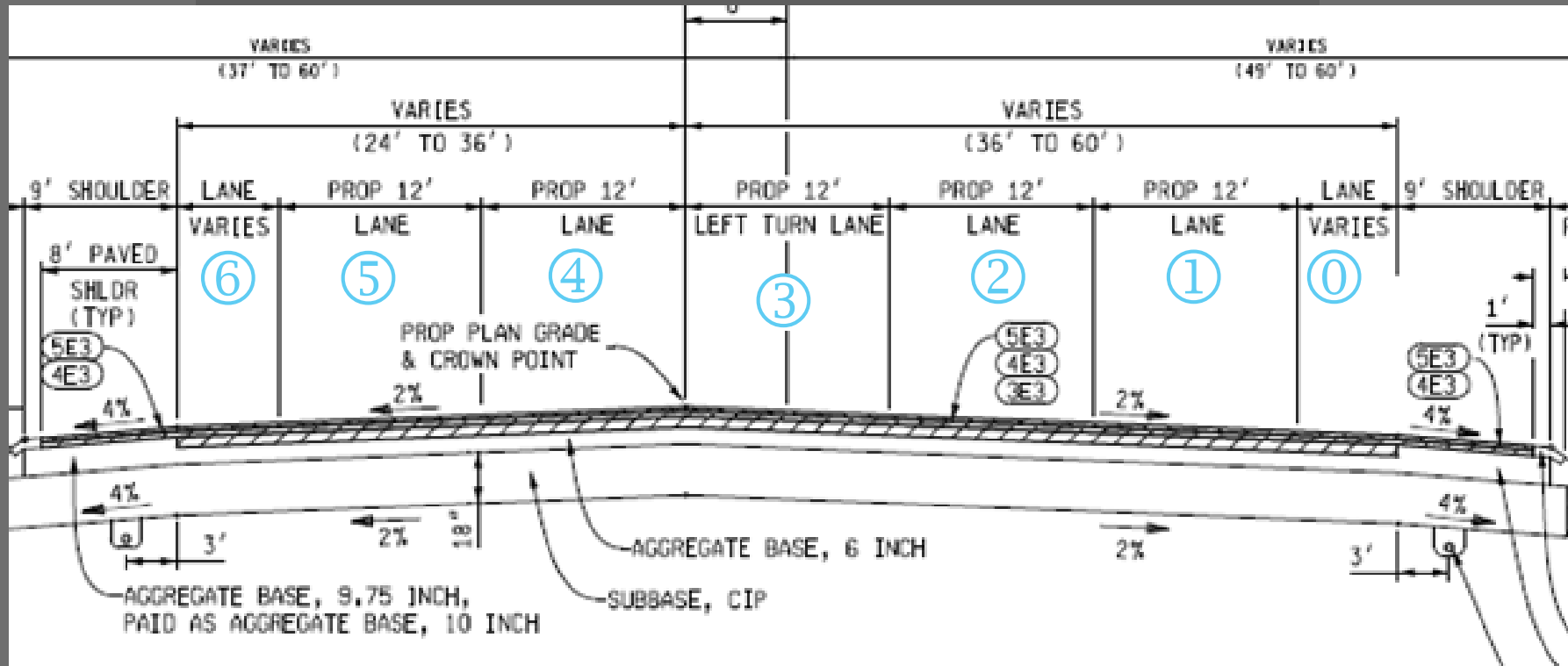
LANE NUMBERING EXAMPLE

Undivided Roadway



LANE NUMBERING EXAMPLE

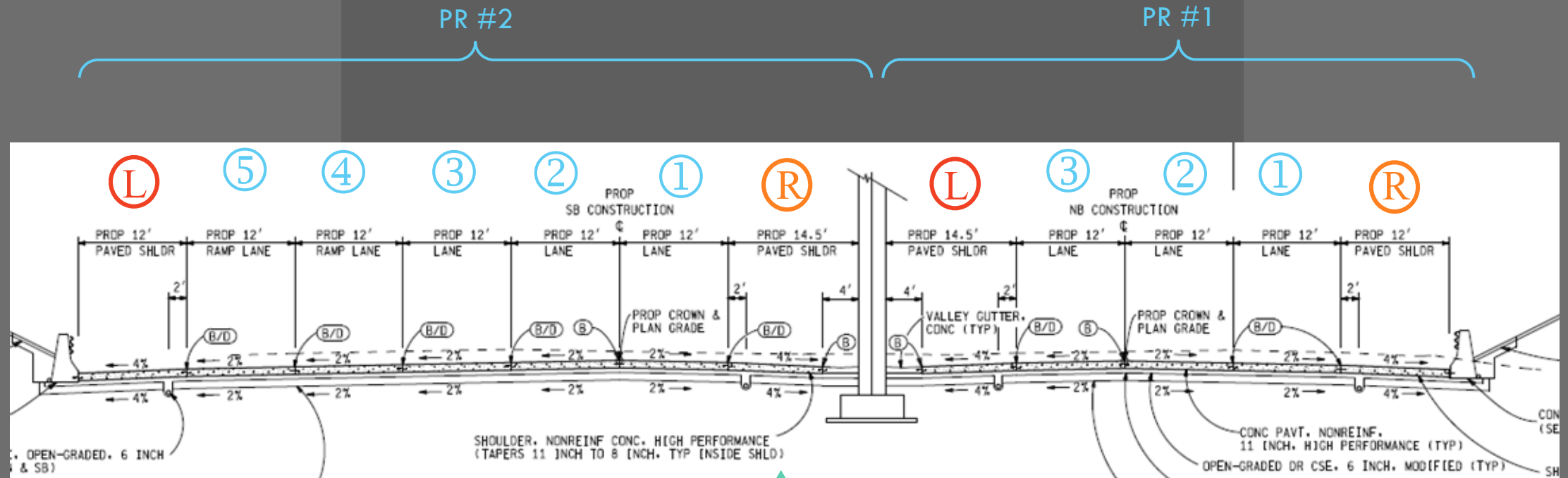
Undivided Roadway



(milepoints increasing looking into the page)

SHOULDER AND CURB & GUTTER DIRECTION

- The shoulder/C&G sides, **right** or **left** are established by using the direction of increasing PR milepoints



(milepoints increasing looking into the page)

LAYERS

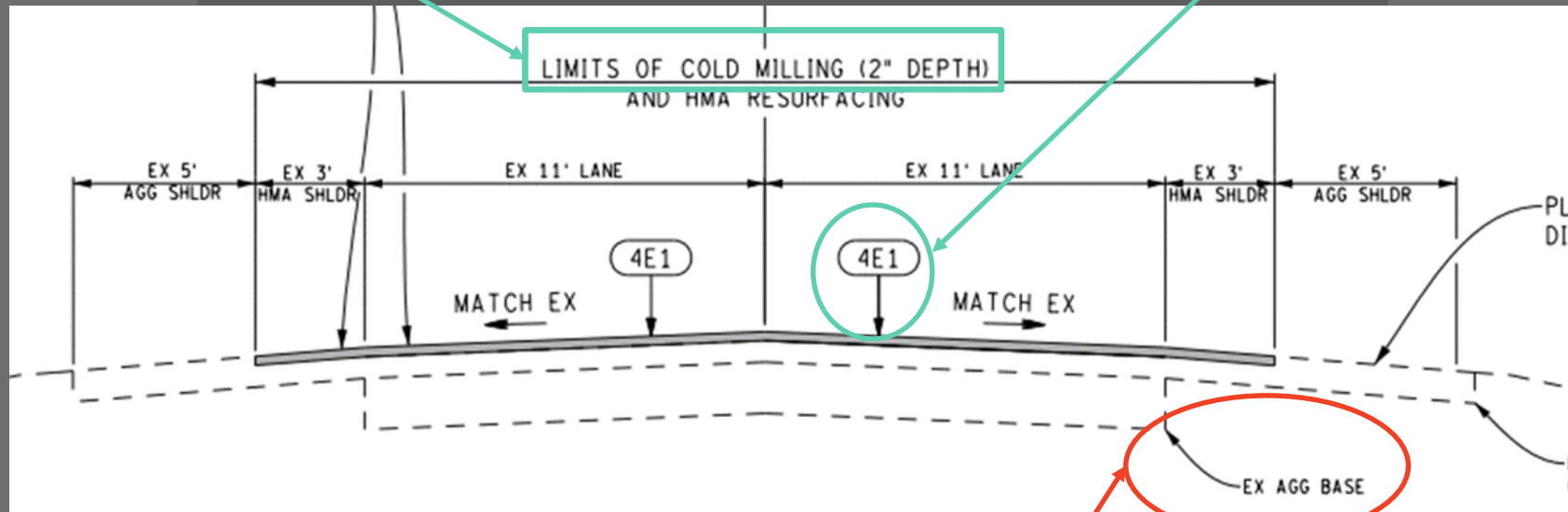
- A layer is a single thickness of a paved/placed material or repair work
- PHD order:
 - First layer constructed entered first & shown **on bottom**
 - Final layer constructed entered last & shown **on top**
- Only enter layers paved/placed in the current job
 - Existing layers or layers paved/placed in other jobs **should not** be entered with the current job
 - *Median info and Surface Type are always entered (even if not worked on)*



LAYERS IN PHD (CONT.)

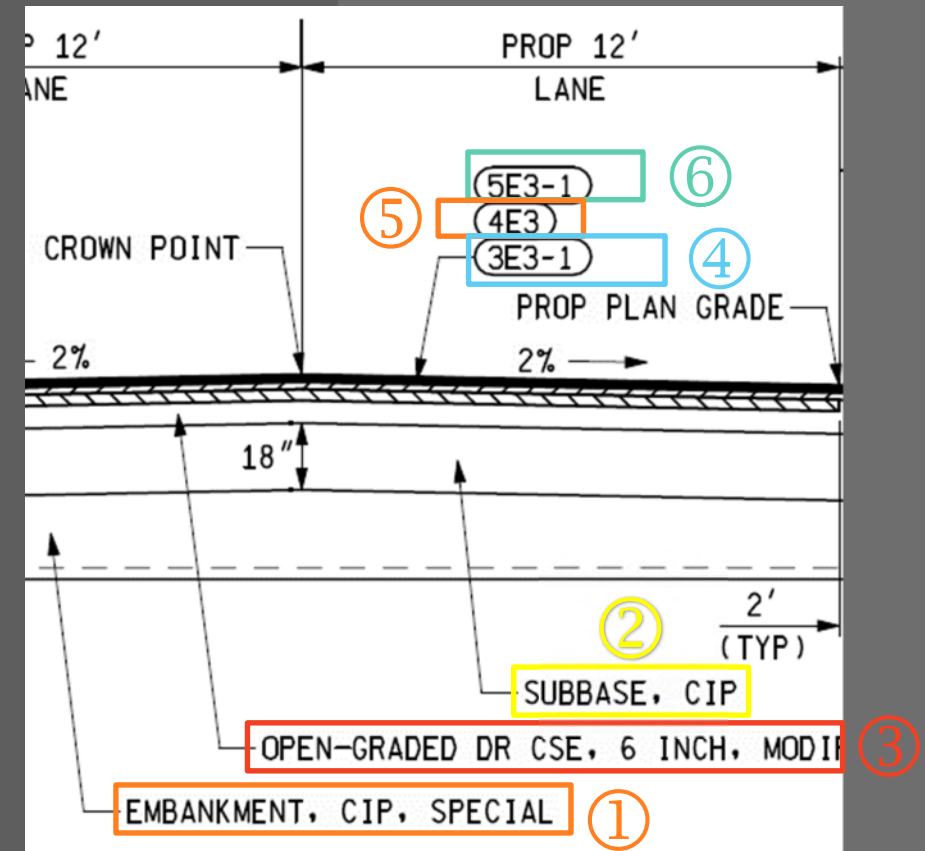
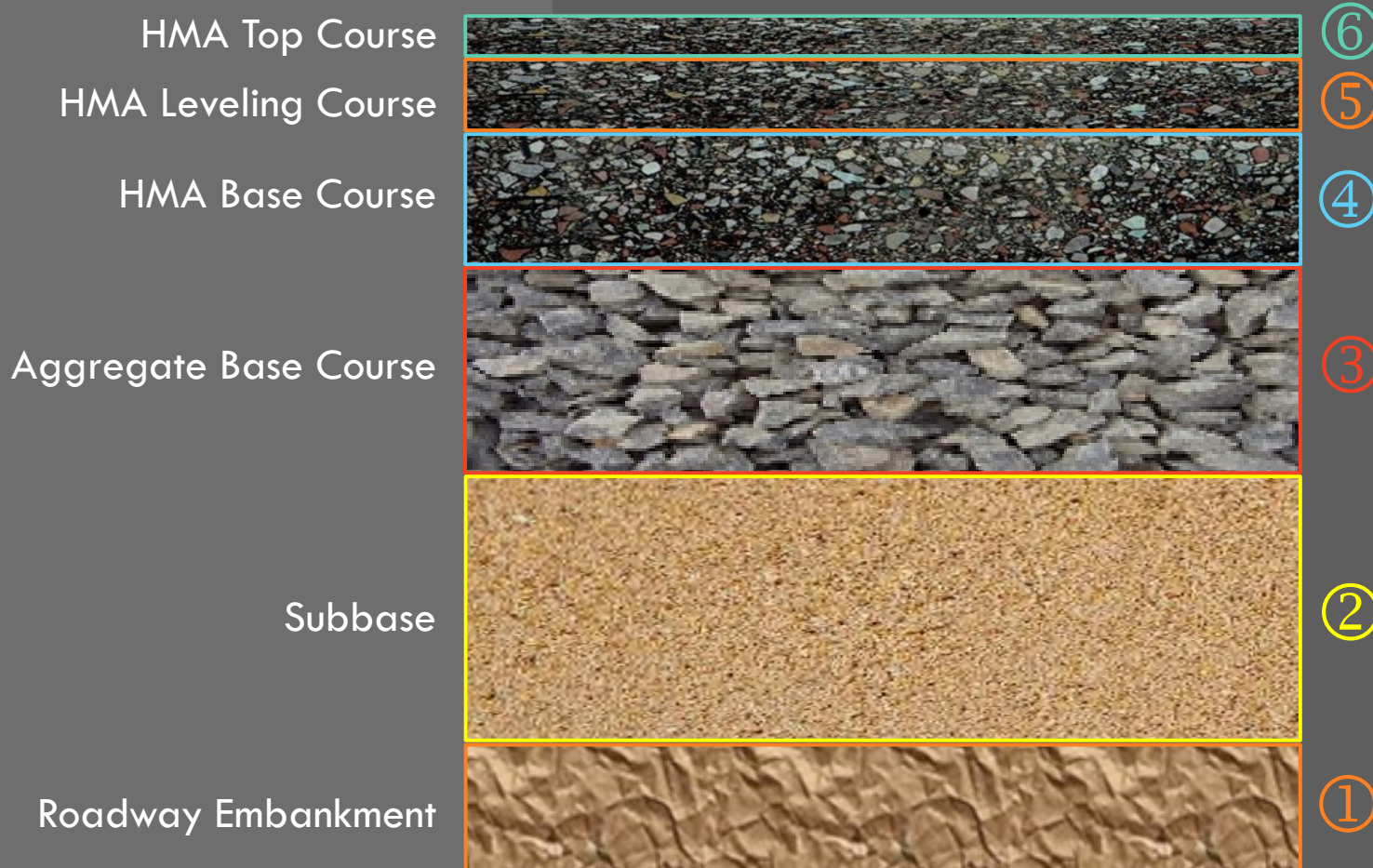
Enter Repair Work

Enter New Layers



Existing Layers are not entered
(except for milling/repair work)

LAYERS EXAMPLE



LAYER ATTRIBUTE EXAMPLE

HMA Top Course



- AWI
- Application Rate
- Aggregate Class
- Asphalt Binder
- Aggregate Source
- Binder Supplier
- Warm Mix?
- Mix Type
- Mix Design Number
- Shingles in Mix?

Aggregate Base Course

- Thickness
- Aggregate Class
- Aggregate Source



Roadway Embankment

- Yes / No



LAYER ATTRIBUTES IN PHD

- For a comprehensive list of all layers and their associated attributes use:
- [Data Entry Items In PHD](#) document, pages 4-10
- *Can be downloaded from the MDOT PHD Info Website*

Pavement Historical Database (PHD)

PHD is a centralized electronic data warehouse. It is designed to collect and store pavement "As Built" typical section information and materials data on Michigan's state-owned roads. The data can be quickly and easily searched, sorted and exported.

Guides & References

- [PHD User Guide](#)
- [Data Entry Items in PHD](#)
- [Quick Reference Guide](#)
- [PHD Data Entry References](#)
- [PHD Consultant Request Protocol](#)

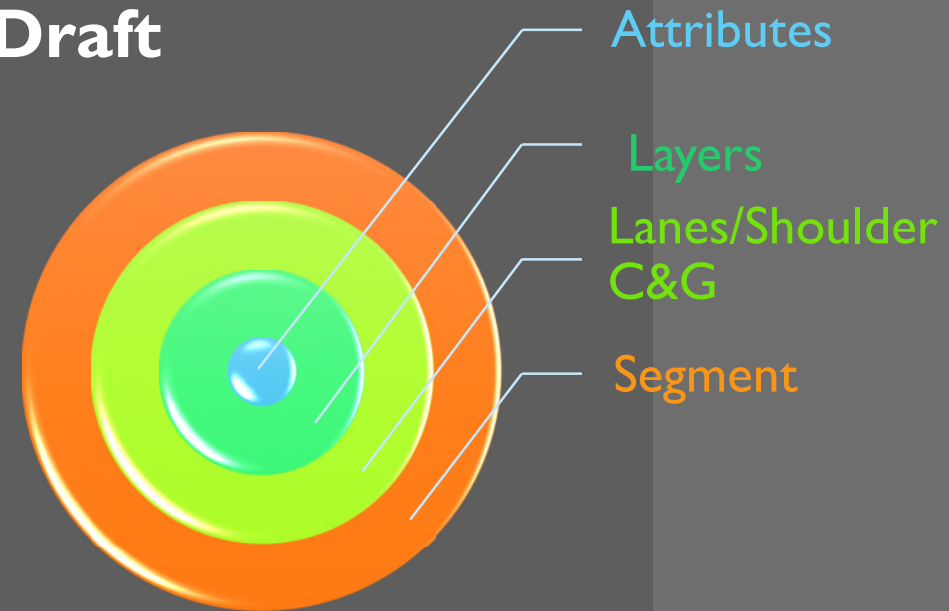


STATUS LEVELS

- There are TWO different status levels for *Layers*, *Lanes/Shoulder Curb & Gutter*, and *Segments*:
 - *DRAFT*
 - *COMPLETE*
- Note: *Layers*, *Lanes/Shoulder Curb & Gutter*, and *Segments*:
 - Must be saved to be shown as **Complete**
 - Can still be edited even if shown as **Complete**
 - Can be changed and saved as **Draft** even if previously saved as **Complete**

STATUS LEVELS (CONT.)

- **Layer:** Complete when all required **Attributes** are entered
 - **Lane/Shoulder Curb & Gutter:** Complete when all **Layers** are entered
 - **Segment:** Complete when all **Lanes/Shoulder Curb & Gutter** & Median details are entered
- If required items are left blank, save as **Draft**
 - Missing information can be entered later



PHD INTERFACE & OPERATIONS

PHD WELCOME SCREEN

- 1 – Menu: Navigation between screens and work areas
- 2 – Active Page: Displays the active main menu and submenu
- 3 – Roles: Assigned access level
- 4 – Location Assignment: TSC/Region, or Statewide jurisdiction
- 5 – Contact & Help: Administrator's contact info and User Manual

The screenshot displays the PHD Welcome Screen. At the top, the header includes the Michigan Department of Transportation (MDOT) logo, the text "Department of Transportation", and the "Michigan.gov" logo. Below the header, a navigation bar contains links for "connectMDOT Home", "PHD Home", "PHD Contact", "PHD Help", and "Sign Out". The main content area is titled "Pavement Historical Database" and shows the user "Jami Trudelle". On the left, a menu is visible with options: "+ Post Constr. Data", "+ Reports & Searches", and "+ Administration". The main text area displays a welcome message and a description of the PHD system. The role assigned to the user is "Data Owner, System Administrator". The assignment location is "Statewide".

1 - Menu

2 - Active Page
(Menu|Submenu)

3 - Roles

4 - Assignment Location

5 - Contact & Help

CREATE NEW JOB SCREEN

- For MAP jobs:
 - Job ID is the MDOT Job Number without the 'A', etc.
- For Non MAP jobs:
 - Job ID naming conventions can be found in the PHD Manual or PHD Quick Ref Guide
 - Job Types: M-fund projects, TWA, Warranty, Direct Forces Work, Historic, & Permit

(2) Choose:
'Yes' for MAP Job
'No' for Non MAP Job

(1)

Navigate to:
Post Constr. Data
Create

The screenshot shows the MDOT Pavement Historical Database interface. The user is logged in as Jami Trudelle with the role of Data Owner, System Administrator. The page title is 'Post Construction Data | Create New'. A left sidebar contains a menu with 'Post Constr. Data' expanded, showing options: 'Create', 'Modify', 'Review', and 'Reassign'. The main form area is titled 'Enter Job Information' and contains the following fields:

- * Is MAP Job :** Radio buttons for 'Yes' (selected) and 'No'.
- * MAP Job ID :** A text input field.
- Measurement System :** Radio buttons for 'English' (selected) and 'Metric'.

Buttons for 'Next Step' and 'Cancel' are at the bottom. A red asterisk legend indicates that fields marked with an asterisk are required. An orange box highlights the 'Post Constr. Data' menu item, and another orange box highlights the 'Is MAP Job' field with an arrow pointing to the instruction text on the right.

JOB DETAILS SCREEN

- **MAP job:**

- *Auto Generated:* Work Type Code & Fix Life
- *User Entered:* Special Project Type, Open to Traffic Date*

Post Construction Data | Job Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Job Details

MAP Job ID : 80912

Work Type Code [From MAP] : 163 - Concrete Reconstruction

Special Project Type [Choose upto two types]

☐ CPM Emerging Technology Funded

☐ Demonstration Project

☐ National Pavement Studies

☐ State Pavement Studies

* **Open to Traffic Date** : [mm/dd/yyyy]

Fix Life [From MAP] : 23 Year(s)

Back Save & Next Cancel

- **Non MAP job:**

- *User Entered:* Work Type Code*, Special Project Type, Job Type*, Open to Traffic Date*, & Fix Life

Post Construction Data | Job Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Job Details

Non MAP Job ID : D201033I-9612.606

* **Work Type Code** [From MAP] : 141 - Bit Resurf & Bit Shlders

Special Project Type [Choose upto two types]

☐ CPM Emerging Technology Funded

☐ Demonstration Project

☐ National Pavement Studies

☐ State Pavement Studies

* **Non MAP Job Type** : Direct Forces Work

* **Open to Traffic Date** : [mm/dd/yyyy]

Fix Life : Year(s)

Back Save & Next Cancel

Simplified CPM - Job Details Screen (for MAP or Non MAP jobs)

- Job must be a CPM project with Work Type Code 400 to 499
- Reduces the amount of data entry:
 - No entry of individual lanes
 - Only enter segment layer information
 - Does not require segment changes based on lane or shoulder changes
- **Note: this can only be selected once and will remain in the selected format**

Simplified CPM

Post Construction Data | Job Details

Role[s] :: Data Owner, System Administrator

* = Required Fields

Job Details

Non MAP Job ID : M123456

* Work Type Code [From MAP] : 405 - Overband Crack Fill

* Use SIMPLIFIED CPM format for data entry? [only use when all lanes and work is the same] : ☒ Yes ☐ No

Special Project Type [Choose upto two types] :

- ☐ CPM Emerging Technology Funded
- ☐ Demonstration Project
- ☐ National Pavement Studies
- ☐ State Pavement Studies

* Non MAP Job Type : Maintenance "M" Funded

* Open to Traffic Date : [mm/dd/yyyy]

Fix Life : 0 Year(s)

Back Save & Next Cancel

WTC = 400-499

Simplified CPM Check Box
Appears only if WTC is 400-499.
Will not appear otherwise.

Simplified CPM - Job Details Screen

- **Cannot** use Simplified CPM format if the following applies to the job:
 - Lanes have different layers constructed
 - All lanes must have the same layers to use Simplified CPM
 - Has HMA paving, which includes these layers:
 - HMA Base Course
 - HMA Leveling Course
 - HMA Top Course
 - HMA Wedge Course
 - HMA Ultra-Thin Overlay
 - Crack Relief Interlayer/DRM
 - Paver Placed Surface Seal
 - Does not have WTC 400 to 499

ROAD SEGMENT LIST SCREEN

- This screen appears after:
 - The job is created, or
 - A previously created job has been selected from the Modify area
- If it is a MAP job then segments will be automatically populated
 - Likely still requires editing and adding segments
- If it is a Non MAP job then the segments need to be created

The screenshot shows the 'Road Segment List' screen for a job titled '80912 / 163 - Concrete Reconstruction'. The user role is 'Data Owner'. The screen includes a 'Job Details' section with an 'Edit Job Details' button. Below this is a 'PR Segment List' table with columns for #, PR Number, PR (v), BMP, EMP, Route, Direction, Framework Status, and Data Status. Two segments are listed: Segment 1 (PR 962706, BMP 11.077, EMP 11.554, Route I-69, Direction E, Active, Draft) and Segment 2 (PR 961905, BMP 4.499, EMP 4.719, Route M-19, Direction N/S, Active, Draft). Below the table are buttons for 'Segment Details', 'Copy Segment Details', 'Create Segment', 'Delete Segment', and 'View Map'. A 'Quick Layer Overview' button is also present. The 'Change PR Segment Mile Points' section includes a table with columns for #, PR Number, BMP, and EMP, with Segment 2 selected. The 'Create PR Sub Segments' section includes a 'No. of Sub Segments' field (set to 2) and a 'Create Sub Segments' button. At the bottom, there is a 'Project Comments' text area (max 250 characters) and a 'Project Summary' button. Navigation buttons at the very bottom are 'Back', 'Finalize Job', 'Save Job as Draft', and 'Cancel'.

Annotations on the screenshot include:

- Edit Job Details**: Points to the 'Edit Job Details' button.
- Copy Segment Details**: Points to the 'Copy Segment Details' button.
- Create or Delete Segments**: Points to the 'Create Segment' and 'Delete Segment' buttons.
- View Map**: Points to the 'View Map' button.
- Create Sub Segments**: Points to the 'Create Sub Segments' button.
- Project Summary**: Points to the 'Project Summary' button.
- Project Comment Box**: Points to the 'Project Comments' text area.
- Change Milepoints**: Points to the 'Change PR Segment Mile Points' section.
- Quick Layer Overview**: Points to the 'Quick Layer Overview' button.
- Edit Segment Details**: Points to the 'Segment Details' button.

Road Segment List Screen

Auto Sub-Segmentation Example:

JN 119085, I-475 Reconstruct

- 28 Segments Auto Populated
 - Mainline
 - I497903 (9 segments)
 - I497904 (9 segments)
 - Ramps
 - I844501 (1 segment)
 - I500701 (2 segments)
 - I844410 (1 segment)
 - I500604 (2 segments)
 - I500610 (1 segment)
 - I500702 (1 segment)
 - I500603 (1 segment)
 - I500605 (1 segment)

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [119085 / 160 - Reconstruction] [Show] ▲

[Edit Job Details](#)

⚠ Job [119085] has been saved as a Draft.

PR Segment List [Hide] ▼

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/> 1	1844501	16	0	0.197	Carpenter/N I 475 Ave		Active	Draft
<input type="radio"/> 2	1497903	16	11.31	11.342	I-475	N	Active	Draft
<input type="radio"/> 3	1497903	16	11.342	11.616	I-475	N	Active	Draft
<input type="radio"/> 4	1497903	16	11.616	11.738	I-475	N	Active	Draft
<input type="radio"/> 5	1497903	16	11.738	12.826	I-475	N	Active	Draft
<input type="radio"/> 6	1497903	16	12.826	13.095	I-475	N	Active	Draft
<input type="radio"/> 7	1497903	16	13.095	13.222	I-475	N	Active	Draft
<input type="radio"/> 8	1497903	16	13.222	13.375	I-475	N	Active	Draft
<input type="radio"/> 9	1497903	16	13.375	13.449	I-475	N	Active	Draft
<input type="radio"/> 10	1497903	16	13.449	14.516	I-475	N	Active	Draft
<input type="radio"/> 11	1497904	16	11.455	11.509	I-475	S	Active	Draft
<input type="radio"/> 12	1497904	16	11.509	11.808	I-475	S	Active	Draft
<input type="radio"/> 13	1497904	16	11.808	11.914	I-475	S	Active	Draft
<input type="radio"/> 14	1497904	16	11.914	12.942	I-475	S	Active	Draft
<input type="radio"/> 15	1497904	16	12.942	13.004	I-475	S	Active	Draft
<input type="radio"/> 16	1497904	16	13.004	13.274	I-475	S	Active	Draft
<input type="radio"/> 17	1497904	16	13.274	13.524	I-475	S	Active	Draft
<input type="radio"/> 18	1497904	16	13.524	13.652	I-475	S	Active	Draft
<input type="radio"/> 19	1497904	16	13.652	14.516	I-475	S	Active	Draft
<input type="radio"/> 20	1500701	16	0	0.259	N I 475/Saginaw RAMP		Active	Draft
<input type="radio"/> 21	1500701	16	0.259	0.345	N I 475/Saginaw RAMP		Active	Draft
<input type="radio"/> 22	1844410	16	0	0.216	S I 475/Carpenter Ave		Active	Draft
<input type="radio"/> 23	1500604	16	0	0.224	S I 475/Saginaw RAMP		Active	Draft
<input type="radio"/> 24	1500604	16	0.224	0.307	S I 475/Saginaw RAMP		Active	Draft
<input type="radio"/> 25	1500610	16	0	0.187	Saginaw/N I 475 RAMP		Active	Draft
<input type="radio"/> 26	1500702	16	0	0.291	Saginaw/N I 475 RAMP		Active	Draft
<input type="radio"/> 27	1500603	16	0	0.238	Saginaw/S I 475 RAMP		Active	Draft
<input type="radio"/> 28	1500605	16	0	0.179	Saginaw/S I 475 RAMP		Active	Draft

[Segment Details](#) [Copy Segment Details](#) [Create Segment](#) [Delete Segment](#) [View Map](#)

[Quick Layer Overview](#)

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	1844501	0	0.197

[Apply Milepoint Changes](#)

Create PR Sub Segments

No. of Sub Segments : [At least 2]

[Create Sub Segments](#)

Project Comments [max 250 characters]

[Back](#) [Finalize Job](#) [Save Job as Draft](#) [Cancel](#)

[Project Summary](#)

EDIT JOB DETAILS

- Returns to the Job Details screen
 - For corrections/changes or review
 - Note: *Simplified CPM* cannot be changed once job is created. Contact an Administrator if this needs to be changed.

Post Construction Data | Job Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Job Details

MAP Job ID : 80912

Work Type Code [From MAP] : 163 - Concrete Reconstruction

Special Project Type [Choose upto two types] :

- ☐ CPM Emerging Technology Funded
- ☐ Demonstration Project
- ☐ National Pavement Studies
- ☐ State Pavement Studies

* Open to Traffic Date : 11/11/2013 [mm/dd/yyyy]

Fix Life [From MAP] : 26 Year(s)

Back Save Job Details

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	11.077	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	2	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
2	961905	4.499	4.719

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments
[max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

CHANGE PR SEGMENT MILEPOINTS

- Select the segment radio button (1)
- In the pane, change the BMP and/or EMP (2)
- Click 'Apply Milepoint Changes' (3)
 - An error will occur if a milepoint is added that exceeds the PR length

(1) Segment Radio Button

(2) Change Milepoints

(3) Apply Changes

Post Construction Data | Road Segment List

Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input checked="" type="radio"/>	1	962706	16	11.077	11.554	I-69	E	Active	Draft
<input type="radio"/>	2	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	962706	10.505 ×	11.554

Create PR Sub Segments

No. of Sub Segments : [2] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

CREATE PR SUBSEGMENTS

- Select the segment radio button (1)
- In the pane, enter the number of sub segments (2)
- Click 'Create Sub Segments' (3)
- In the Create Sub Segments screen, enter BMP & EMP for each new sub segment (4)
- Click 'Create Sub Segments' (5)
 - An error will occur if milepoints overlap or exceed the PR length

Post Construction Data | Create Sub Segments Role[s] :: Data Owner

Road Segment [PR # - 962706 / MP : 10.505 ... 11.554] [Show] ▲

PR Sub Segment Summary	#	PR Number	BMP	EMP
<input type="checkbox"/>	1	962706	10.505	10.789
<input type="checkbox"/>	2	962706	10.789	11.123
<input type="checkbox"/>	3	962706	11.123	11.554

Delete

Back Create Sub Segments (5)

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
(1)	<input checked="" type="radio"/>	1	962706	16	10.505	11.554	I-69	E	Active	Draft
	<input type="radio"/>	2	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points	#	PR Number	BMP	EMP
	1	962706	10.505	11.554

Apply Milepoint Changes

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

Create PR Sub Segments

No. of Sub Segments : 3 [At least 2]

Create Sub Segments (3) (2)

Create Sub Segments

CREATE SEGMENT

- Click 'Create Segment' (1)
- In the Create PR Segment screen, enter PR Number, BMP, & EMP (2)
- Click 'Create' or 'Create and Add One More' (3)
 - An error will occur if milepoints exceed the PR length or PR is located outside of user Location Assignment

Post Construction Data | Create PR Segment Role[s] :: Data Owner

*** = Required Fields**

Latest PR Version	PR Number*	BMP*	EMP*
16	961905	4.123	4.499

(3)

(2)

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/> 1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/> 2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/> 3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/> 4	961905	16	4.499	4.719	M-19	N/S	Active	Draft

(1)

#	PR Number	BMP	EMP
4	961905	4.499	4.719

Create PR Sub Segments

No. of Sub Segments : [At least 2]

Project Comments
[max 250 characters]

DELETE SEGMENT

- Select the segment radio button (1)
- Click 'Delete Segment(s)' (2)
- In the Delete PR Segment screen, check the segments to delete (3)
- Click 'Confirm' (or Back to cancel) (4)

Post Construction Data | Delete PR Segment(s) Role[s] :: Data Owner, System Administrator

Select segment(s) to delete.

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="checkbox"/>	1	962706	17	10.505	10.789	I-69	E	Active	Draft
<input type="checkbox"/>	2	962706	17	10.789	11.123	I-69	E	Active	Draft
<input type="checkbox"/>	3	962706	17	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="checkbox"/>	4	961905	17	4.123	4.465	M-19	N/S	Active	Draft
<input type="checkbox"/>	5	961905	17	4.465	4.499	M-19	N/S	Active	Draft
<input type="checkbox"/>	6	961905	17	4.499	4.719	M-19	N/S	Active	Draft

Back Confirm

Post Construction Data | Road Segment List Role[s] :: Data Owner, System Administrator

Job Details [Test123 / 160 - Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	962706	17	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	17	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	17	11.123	11.554	I-69	E	Active	Draft
<input type="radio"/>	4	961905	17	4.123	4.465	M-19	N/S	Active	Draft
<input type="radio"/>	5	961905	17	4.465	4.499	M-19	N/S	Active	Draft
<input type="radio"/>	6	961905	17	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	962706	10.505	10.789

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

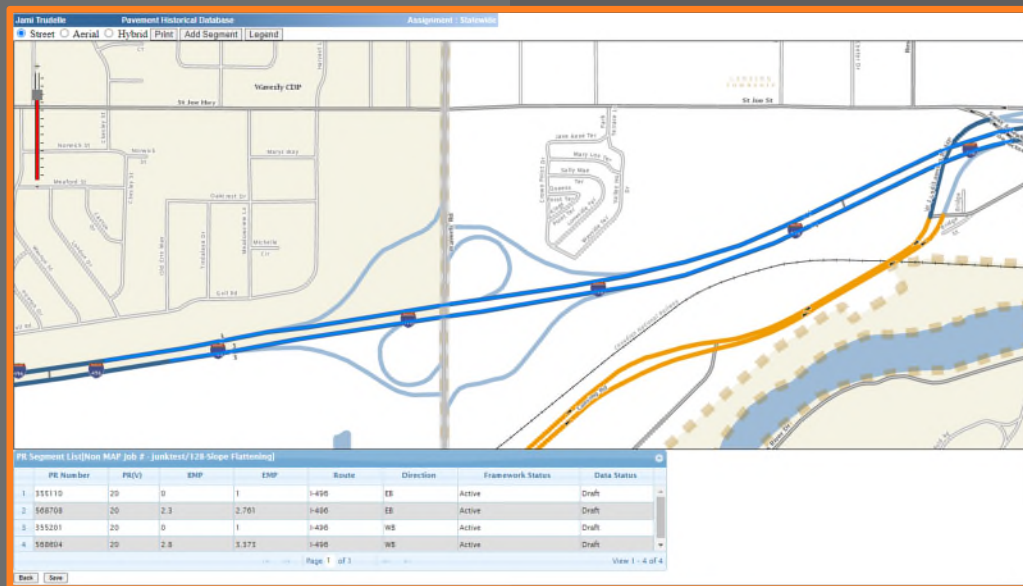
Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

VIEW MAP

- This function shows all Road Segment List segments in a map
- Click 'View Map'
 - The Map screen will appear
 - Can add new segments, delete segments, change segment milepoints, view/print segments in map ← same as what can be done in Road Segment List screen



Post Construction Data | Road Segment List

Role[s] :: Data Owner , System Administrator

Job Details [junktest / 128 - Slope Flattening] [Show] ▲

Edit Job Details

⚠ Successfully deleted the segment(s).

PR Segment List [Hide] ▼

#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input checked="" type="radio"/>	1	355110	20	0	1	I-496	EB	Active	Draft
<input type="radio"/>	2	568708	20	2.3	2.761	I-496	EB	Active	Draft
<input type="radio"/>	3	355201	20	0	1	I-496	WB	Active	Draft
<input type="radio"/>	4	568604	20	2.8	3.373	I-496	WB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	355110	0	1

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

VIEW MAP MAP SCREEN

- (1) Map View Type
- (2) Map Tools
- (3) Map
- (4) PR Segment List
- (5) Back & Save

The screenshot shows a web-based map application interface. At the top, there's a header bar with 'Assignment : Statewide'. Below it, a toolbar contains radio buttons for 'Street' (selected), 'Aerial', and 'Hybrid', along with 'Print', 'Add Segment', and 'Legend' buttons. The main map area displays a road network with a highlighted blue route. A vertical scale bar is on the left. Below the map is a 'PR Segment List' table. At the bottom, there are 'Back' and 'Save' buttons.

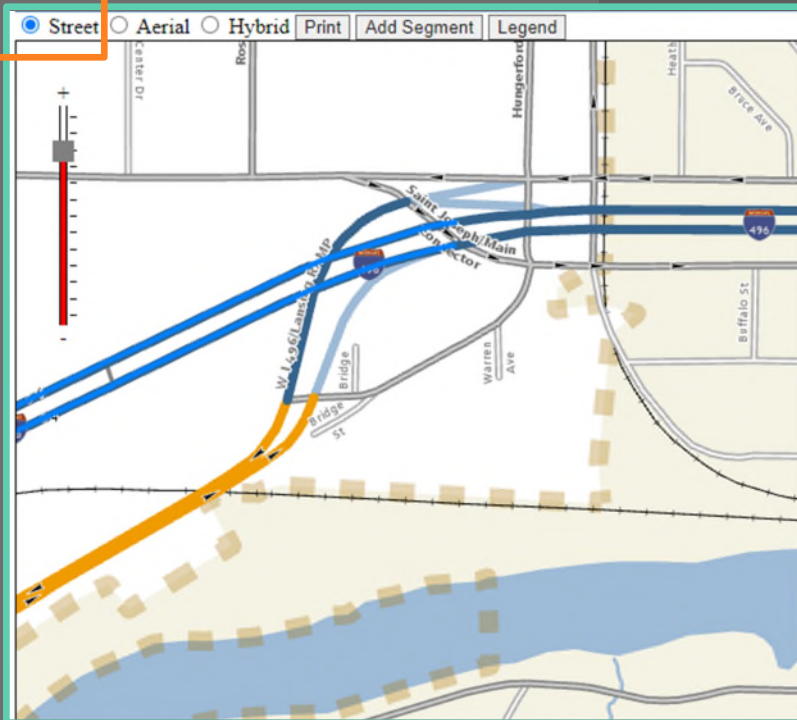
	PR Number	PR(V)	BMP	EMP	Route	Direction	Framework Status	Data Status	
(4)	1	962706	16	10.505	10.789	I-69	E	Active	Draft
	2	962706	16	10.789	11.123	I-69	E	Active	Draft
	3	962706	16	11.123	11.554	I-69	E	Active	Draft
	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft

Page 1 of 1 View 1 - 5 of 5

VIEW MAP MAP SCREEN

- Map View Types
 - Select the view type radio button to change the map background image

Street



Aerial



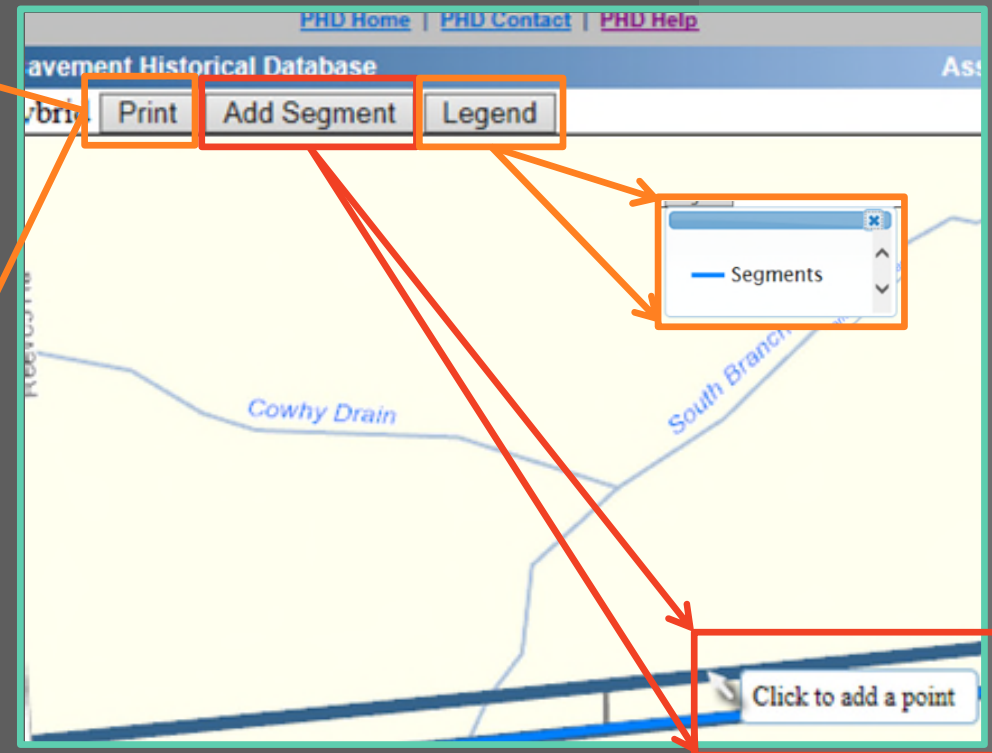
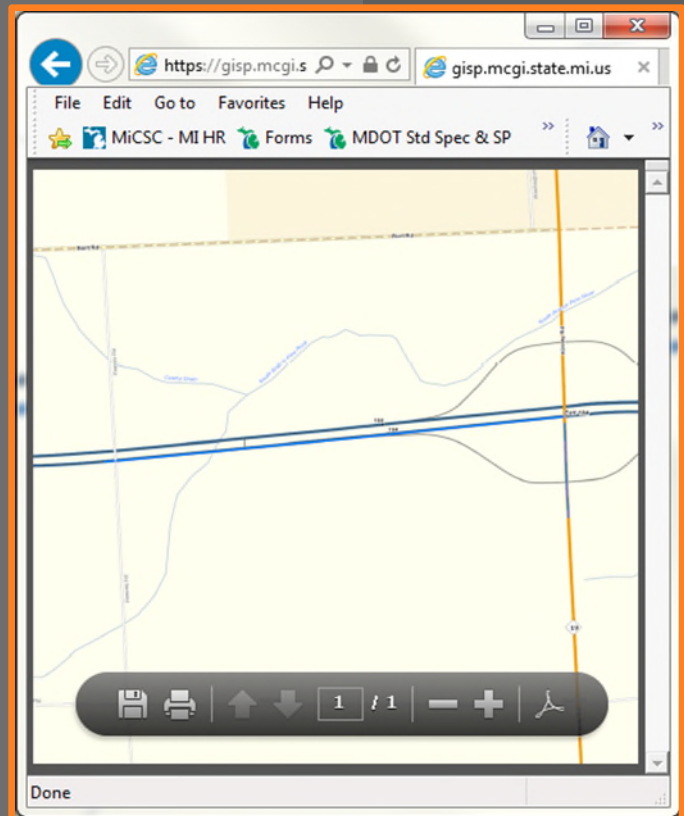
Hybrid



VIEW MAP MAP SCREEN

- Map Tools

- Click *Print* to show map image with the segments in a new PDF pop-up window
 - May take 20-30 seconds to load the first print. Following prints should be faster.
- Click *Add Segment* to add new segments to the PHD job
 - Select the location within the map to add segment. Repeat to add new segments.
- Click *Legend* to view the meanings of the different colors within the map



VIEW MAP ADD SEGMENT

- Move the map view with click and drag
- Zoom the view with mouse wheel or click the + or – on the scale
- Add segments in map:
 - Click 'Add Segment',
 - Click on the segment in the map,
 - The **entire PR length** will turn blue and will be added
- View & edit milepoints:
 - Select a segment using the map or table,
 - The segment turns green and the Road Segment Information box appears,
 - Click 'Edit' and change the BMP and/or EMP,
 - Click 'Save' in the box to confirm or click 'Cancel' in the box to undo
- Delete segments:
 - Select a segment in the map or table,
 - The Road Segment Information box will appear,
 - Click 'Delete' in the box or click 'Cancel' in the box to undo

Add Segment

BMP and EMP of PR

Edit

Delete

PR Segment List[Non MAP Job # - junktest/128-Slope Flattening]

	PR Number	PR(V)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	355110	20	0.7	1.2	I-496	EB	Active	Draft
2	568708	20	2.3	2.761	I-496	EB	Active	Draft
3	355201	20	0	1	I-496	WB	Active	Draft

VIEW MAP SEGMENT LIST

- PR Segment List Table
 - Shows the segments in the Road Segment List screen
 - Exception: If changes are made, this table will not match if clicking *Back* before clicking *Save*
 - Click a column header to sort the table, (a triangle will identify the active sort)
 - Click a segment row in the table to zoom to it and show the Road Segment Info box
 - Hide the table by clicking the triangle in the upper right corner

Road Segment Information

PR NUM 355110

BMP 0.7 (0)

EMP 1.2 (8.4)

Edit Cancel Delete

PR Segment List[Non MAP Job # - junktest/I28-Slope Flattening]

	PR Number	PR(V)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	355110	20	0.7	1.2	I-496	EB	Active	Draft
2	355201	20	0	1	I-496	WB	Active	Draft
3	568604	20	2.8	3.373	I-496	WB	Active	Draft
4	568708	20	2.3	2.761	I-496	EB	Active	Draft

VIEW MAP MAP SCREEN

- Save & Back
 - Click 'Save' to save all added segments, deleted segments, and/or milepoint changes made in the map
 - **Important: Nothing is saved until Save is clicked**
 - **Note:** If there are any overlapping segments, a warning message will appear and **not allow the save**. Segments that **overlap must be manually changed**.
 - Click 'Back' to return to the Road Segment List screen
 - **Important: Click Save before clicking Back to save changes**
 - **Note:** To undo all changes, click Back and do not click Save

	PR Number	PR(V)	BMP	EMP	Route	Direction	
2	961905	16	4.499	4.719	M-19	N/S	Ac
3	962706	16	10.505	10.789	I-69	E	Ac
4	962706	16	10.789	11.123	I-69	E	Ac
5	962706	16	11.123	11.554	I-69	E	Ac

Page 1 of 1

Back Save

Post Construction Data | Road Segment List

Job Details [80912 / 163 - Concrete Reconstruction] [Show]

Edit Job Details

PR Segment List [Hide]

	#	PR Number	PR (V)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft
<input checked="" type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
5	961905	4.499	4.719

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

VIEW MAP MAP SCREEN

- Additional Notes:
 - Segments with **older framework will have warning message and may not be visible in map**
 - Older framework segments can exist if multi-year projects started in the previous year, or PHD jobs that were started early in the year, before new framework was available— (*old framework segments can still be used & saved*).
 - The map uses the most current framework version
 - **If older framework segments are in the PHD job, warnings appear:**
 - At the top of the Road Segment Lis screen
 - In map screen if selected from the PR Segment List table and it cannot be viewed

Post Construction Data | Road Segment List

Role[s] :: Data Owner

Job Details [80920 / 160 - Recnst Exist, No Widen] [Show] ▲

WARNING: This PHD job includes segment(s) with older framework that may not be visible and/or edited in the map screen.

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
---	-----------	--------	-----	-----	-------	-----------	------------------	-------------

Message from webpage

WARNING: This segment cannot be viewed in the map because it has an older PR version that is incompatible with the current version geometry data. To view this segment, return to the Road Segment List screen and re-add this segment; (make sure to also copy or re-add any details or attribute information before deletion of the original segment)

OK

EDIT SEGMENT DETAILS

- Select the segment radio button (1)
- Click 'Segment Details' (2)
- The Segment Overview screen will appear

PR Segment List [Hide] ▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
(1)	<input checked="" type="radio"/>	1	3130113	17	0	0.162	I-8L-94	E/W	Active	Draft
	<input type="radio"/>	2	3130105	17	0	0.233	M-199	Bi	Active	Draft
(2)	<input type="radio"/>	3	3130105	17	0	0.233	M-199	Bi	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	3130113	0	0.162

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

Post Construction Data | Segment Overview Role[s] :: Data Owner , Data Entry , System Administrator

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Shoulder Overview

	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview

Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft

Lane Details

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview

* Median Type :

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

EDIT SEGMENT DETAILS SEGMENT OVERVIEW SCREEN

- Entry of work on lanes, shoulder, and/or curb and gutter
- Data entered here is only for the current selected segment (not entire project)

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Shoulder Overview			Segment Lane(s) Overview		
	Left	Right	Lane #	Work Done	Status
Work Done	Yes	Yes	4.0	Yes	Draft
Status	Draft	Draft	3.0	Yes	Draft
			2.0	Yes	Draft
			1.0	Yes	Draft

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Median Overview

* Median Type : Undivided

Segment Comments
[max 250 characters]

Buttons: Back, Save Segment, Save Segment As Draft, Cancel, Segment Summary

Annotations:

- Edit Shoulder, Curb & Gutter Details (points to "Shoulder, Curb & Gutter Details" button)
- Median Overview Box (points to "Median Overview" section)
- Segment Comment Box (points to "Segment Comments" text area)
- Edit Lane Details (points to "Lane Details" button)
- Segment Summary (points to "Segment Summary" button)

Segment Overview Screen

Pre-population of Segment Details Example: *JN 119085, I-475 Reconstruct*

- Segment Info for PR 1497903, MP 11.310 – 11.342

- Pre-populated:

- Lanes = 4 lanes (1.0, 2.0, 3.0, 4.0)
- Shoulders = Left & Right Side
- Median Type = Concrete Barrier
- Median Width = 26'

- Never Pre-populated:

- Curb & Gutter

- Must Add and Modify manually

The screenshot displays the 'Segment Overview' screen for 'Post Construction Data'. The role is 'Data Owner'. The segment details are for PR # 1497903 / MP : 11.31 ... 11.342. The screen is divided into several sections:

- Segment Details [PR # - 1497903 / MP : 11.31 ... 11.342]** [Show] ▲
- Segment Shoulder Overview**

	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft
- Segment Lane(s) Overview**

Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft
- Segment Curb & Gutter Overview**

	Left	Right
Work Done	No	No
Status		
- Median Overview**
 - * Median Type : Concrete Barrier
 - * Median Width : 26 ft
- Segment Comments** [max 250 characters]

Buttons at the bottom: Back, Save Segment, Save Segment As Draft, Cancel, and Segment Summary.

Simplified CPM – Segment Overview Screen

- Same as full job:
 - Shoulder, Curb & Gutter data entry button
 - Segment Comments and Segment Summary
- Different from a full job
 - *Lane Details* button vs. *Segment Sections* pane: **only enter layers, no lanes**
 - Enter the Year of the work
 - No Median entry

Add/Edit
Segment Layers
(No Lane Details)

Simplified CPM

Edit Shoulder, Curb & Gutter Details

Enter the Year work was Paved/Placed

The screenshot shows the 'Segment Overview' screen for a project with PR # 768604 and MP range 0 to 1.293. The user role is 'Data Owner, System Administrator'. The screen is divided into several sections:

- Segment Details**: Shows PR # - 768604 / MP : 0 ... 1.293. A '[Show]' button is visible.
- Segment Shoulder Overview**: A table with columns 'Left' and 'Right'. The 'Work Done' row shows 'No' for both.
- Segment Curb & Gutter Overview**: A table with columns 'Left' and 'Right'. The 'Work Done' row shows 'No' for both.
- Segment Sections**: A table with columns '#', 'Layer Name', 'Data Entry Status', and a checkbox. Below the table are 'Move Up', 'Move Down', and 'Remove' buttons.
- Select New Layer**: A dropdown menu labeled 'Layer : Select a Layer' and an 'Add Layer' button.
- Shoulder, Curb & Gutter Details**: A button to edit these details.
- Year [Paved/Placed]**: A text input field with a '*' icon and a '[yyyy]' placeholder.
- Segment Comments**: A text area with a '[max 250 characters]' label.
- Buttons**: 'Back', 'Save Segment', 'Save Segment As Draft', and 'Cancel' at the bottom.
- Segment Summary**: A button at the bottom right.

Annotations with red arrows point to the following elements:

- 'Add/Edit Segment Layers (No Lane Details)' points to the 'Segment Sections' table.
- 'Edit Shoulder, Curb & Gutter Details' points to the 'Shoulder, Curb & Gutter Details' button.
- 'Enter the Year work was Paved/Placed' points to the 'Year [Paved/Placed]' input field.
- 'Segment Comment Box' points to the 'Segment Comments' text area.
- 'Segment Summary' points to the 'Segment Summary' button.

SEGMENT OVERVIEW SCREEN MEDIAN OVERVIEW

- Select *Median Type* from the drop-down list
- Enter *Median Width* (ft) in the box
 - If 'Other' is selected, enter a type that is not in the Median Type List
 - If 'Undivided' is selected, no Median Width

The diagram illustrates the data entry process for the Median Overview screen. It features a central 'Median Overview' form with a dropdown menu for 'Median Type' and a text box for 'Median Width'. Four inset forms show different states:

- Top Left Inset:** 'Median Type' is set to 'Undivided'.
- Bottom Left Inset:** 'Median Type' is set to 'Graded with ditch' and 'Median Width' is 30 ft.
- Bottom Center Inset:** 'Median Type' is set to 'Other' and 'Other' is set to 'Mountainous'.
- Right Inset:** The 'Segment Overview' screen showing 'No Lanes Defined'.

Arrows indicate the flow of data entry from the central form to the insets.

Median Overview

* Median Type : **Select a Median**

* Median Width : **Concrete Barrier**

Segment Comments
[max 250 characters]

Median Overview

* Median Type : **Graded with ditch**

* Median Width : **30** ft

Median Overview

* Median Type : **Other**

* Other : **Mountainous**

* Median Width : ft

Segment Overview

	Left	Right
Work Done	No	No
Status		

Segment Lane(s) Overview

Lane #	Work Done	Status
No Lanes Defined		

Segment Comments
[max 250 characters]

Buttons: Back, Save Segment, Save Segment As Draft, Cancel

Segment Summary

SEGMENT OVERVIEW SCREEN LANE DETAILS

- Click 'Lane Details'
- The Lane Summary screen will appear

Post Construction Data | Segment Overview Role[s] :: Data Owner, Data Entry, System Administrator

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview		
Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview

* Median Type : Select a Median ▼

* Median Width : 0.0 ft

Segment Comments
[max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Post Construction Data | Lane Summary Role[s] :: Data Owner, Data Entry, System Administrator

*** = Required Fields**

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Lanes

Select Lane : Lane #4.0 ▼ Work Done : ☒ Yes ☐ No

Selected Lane: 4.0

Add Left Lane Add Right Lane Copy Lane Remove Lane

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
 - Lane 1 is the right-most travel lane of the PR segment.
 - Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
 - Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #4.0]

* Surface Type (pavement cross-section) : HMA over existing Jointed Conc ▼

* Width : 11 ▼ ft

* Lane Type : Select Lane Type ▼

* Year [Paved/Placed] : 2020 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane # 4.0]

#	Layer Name	Data Entry Status	

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer ▼

Add Layer

*** = Required Fields**

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

EDIT LANE DETAILS

- **If no lanes shown:** Click *Add Lane* button
- Per lane, screen panes include:
 - (1) Segment Details Info
 - (2) Segment Lanes
 - (3) Selected Lane
 - (4) Lane Details
 - (5) Lane Sections
 - (6) Back/Save/Cancel/Copy Lane Layers to Shoulder(s)

Post Construction Data | Lane Summary Role[s] :: Data Owner, Data Entry, System Administrator

* = Required Fields

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Lanes

Select Lane : Lane #4.0 Work Done : ☒ Yes ☐ No

Add Left Lane Add Right Lane Copy Lane Remove Lane

Selected Lane

4.0

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:

- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #4.0]

* Surface Type (pavement cross-section) : HMA over existing Jointed Conc

* Width : 11 ft

* Lane Type : Select Lane Type

* Year [Paved/Placed] : 2020 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane # 4.0]

#	Layer Name	Data Entry Status	

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer

Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

EDIT LANE DETAILS (CONT.)

(A) To add a lane:

- Click 'Add Left Lane' -or- 'Add Right Lane'

(B) To remove a lane:

- Click 'Remove Lane'

(C) To copy lane details (from one to another)

- Click 'Copy Lane'

(D) Enter details:

- In the *Lane Details* pane

(E) To add and edit layers:

- Select a layer from the *Select New Layer* drop-down and click 'Add Layer'

(F) To copy layers to shoulder(s):

- Click 'Copy Lane Layers to Shoulder(s)'

Post Construction Data | Lane Summary Role[s] :: Data Owner, Data Entry, System Administrator

*** = Required Fields**

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Lanes

Select Lane : Lane #4.0 (C) Work Done : ☒ Yes ☐ No

Add Left Lane Add Right Lane Copy Lane Remove Lane (B)

Selected Lane
4.0

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment: (A)

- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #4.0]

* Surface Type (pavement cross-section) : HMA over existing Jointed Conc ▼

* Width : 11 ▼ ft

* Lane Type : Select Lane Type ▼

* Year [Paved/Placed] : 2020 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane # 4.0]

#	Layer Name	Data Entry Status	
			<input type="checkbox"/>

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer ▼

Add Layer

*** = Required Fields**

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s) (F)

(D)

(E)

EDIT LANE DETAILS

LANE DETAILS PANE

- Select the *Surface Type* from the drop-down menu
- Select the lane *Width* from the drop-down menu
- Select the *Lane Type* (functional use) from the drop-down menu
- Enter the *Year* the work/material was *Paved or Placed*
- Select 'Yes' if this lane was **Partially Paved* in this job
 - *refers to final width of paved lane, not part-width construction

Lane Details [Lane #0.0]

* Surface Type : HMA full depth ▼

* Width : 12 ▼ ft

* Lane Type : Right Turn ▼

* Year [Paved/Placed] : 2018 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Select Surf. Type

HMA full depth

HMA over existing HMA

HMA over existing Jointed Conc

HMA over existing CRCP

HMA over existing Brick

JPCP-Jointed Plain Concrete Pvmnt

JRCP-Jointed Reinforced Conc Pvmnt

CRCP-Continuously Reinf Conc Pvmnt

Unbonded Conc Overlay on Exist Conc

Whitetopping

Brick

Other

Select Lane Type

Buffer Space

Center Left Turn

Left & Right Turn

Left Turn

Mainline

Median Turnaround

Merge

Off-Ramp

On-Ramp

Passing Flare

Passing Relief

Right Turn

Truck Climbing

Weave

EDIT LANE DETAILS PARTIAL WIDTH PAVING

- Click the 'Yes' radio button for *Partial Width Paving?*
 - The *Paving Width* list will appear to select the partial width
- Note: The *Width* entry will indicate the full paving width if 'No' is selected for *Partial Width Paving?*
- Note: This does not refer to construction staging part-width paving. This refers to final width of lane paved, regardless of construction staging

Lane Details [Lane #1.0]

* Surface Type : HMA full depth ▼

* Width : 12 ▼ ft

* Lane Type : Mainline ▼

* Year [Paved/Placed] : 2018 [yyyy]

* Partial Width Paving? : ☒ Yes ☐ No

* Paving Width : 3 ▼ ft

Segment Overview Screen

Pre-population of Lanes Example:

JN 119085, I-475 Reconstruct

- Lanes for PR 1497903, MP 11.310 – 11.342
- Lane #4 Pre-populated:
 - Surface Type = JRCF
 - Width = 12'
 - Year [Paved/Placed] = 2016
- Not Pre-populated (no data found):
 - Lane Type
- **Never** Pre-populated:
 - Partial Width Paving?
 - Layers

Post Construction Data | Lane Summary Role[s] :: Data Owner

* = Required Fields

Segment Details [PR # - 1497903 / MP : 11.31 ... 11.342] [Show] ▲

Segment Lanes Selected Lane

Select Lane : Lane #4.0 Work Done : ☒ Yes ☐ No 4.0

Add Left Lane A Remove Lane

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #4.0]

* Surface Type : JRCF-Jointed Reinforced Conc Pvmnt ▼

* Width : 12 ▼ ft

* Lane Type : Select Lane Type ▼

* Year [Paved/Placed] : 2016 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane #4.0]

#	Layer Name	Data Entry Status	
			<input type="checkbox"/>

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer ▼ Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

EDIT LANE DETAILS

EDIT LAYER DETAILS

- In the *Layer* drop-down, select a layer (starting from the bottom of the cross section, i.e. Subbase) (1)
- Click 'Add Layer' (repeat until all layers are added) (2)
- Click on the layer in the Lane Section box to begin editing (3)

Simplified CPM

Segment Lanes

Select Lane : Lane #1.0 **Work Done** : ☒ Yes ☐ No

Selected Lane
1.0

[Add Left Lane](#) [Add Right Lane](#) [Copy Lane Details](#) [Remove Lane](#)

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
 - Lane 1 is the right-most travel lane of the PR segment.
 - Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
 - Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #1.0]

* Surface Type : HMA full depth

* Width : 12 ft

* Lane Type : Mainline

* Year [Paved/Placed] : 2014 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane #1.0]

#	Layer Name	Data Entry Status

[Move Up](#) [Move Down](#) [Remove](#)

Select New Layer

Layer : Select a Layer

[Add Layer](#)

* = Required Fields

[Back](#) [Save Lane](#) [Save Lane As Draft](#) [Cancel](#)

Post Construction Data | Segment Overview Role[s] :: Data Owner , System Administrator

Segment Details [PR # - 768604 / MP : 0 ... 1.293] [\[Show \] ▲](#)

Segment Shoulder Overview

	Left	Right
Work Done	No	No
Status		

Segment Sections

#	Layer Name	Data Entry Status

[Move Up](#) [Move Down](#) [Remove](#)

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Select New Layer

Layer : Select a Layer

[Add Layer](#)

Shoulder, Curb & Gutter Details

* Year [Paved/Placed] : [yyyy]

Segment Comments
[max 250 characters]

[Back](#) [Save Segment](#) [Save Segment As Draft](#) [Cancel](#)

[Segment Summary](#)

EDIT LANE DETAILS EDIT LAYER DETAILS

- Select the Layer in the *Select a Layer* drop-down (1)
- Enter details in the *Pavement Attributes* pane (2)
- (If shown), in the *Select New Aggregate* pane: (3)
 - Select the aggregate from the *Aggregate* list (standard MDOT gradations)
 - If 'Other Aggregate' (non-standard gradation) selected - enter the other aggregate name in the text box
- Enter the pit source number for *Source*,
 - Note: "CC" pit source numbers can be used
- Click 'Add Aggregate' (4)
- Repeat until all aggregates have been added

Drop-down menu to quickly change between setup layers

Post Construction Data | Layer Details Role[s] :: Data Owner, System Administrator

*** = Required Fields**

Select a Layer [Job # - JPS_TEST1234 / PR # - 3031548/ MP :0.9 ... 1]

Layer : HMA Base Course (1)

Pavement Attributes - HMA Base Course

* Application Rate : 330 #/syd

* Asphalt Binder : PG 64-22

* Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI

* Mix Type : 3E3

* Mix Design No (Case Sensitive) : 13MD296 (2)

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate : Other Aggregate

Other : WCD

Source : 72 - 5

Add Aggregate (4)

Aggregate Summary

Aggregate	Source	
2SS	04-057	<input type="checkbox"/>
2NS	72-006	<input type="checkbox"/>
25A	72-006	<input type="checkbox"/>

Add Aggregates Edit Aggregate Remove Aggregate

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft Add to Quick Layers

EDIT LANE DETAILS EDIT LAYER DETAILS

Post Construction Data | Layer Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Select a Layer [Job # - JPS_TEST1234 / PR # - 3031548/ MP :0.9 ... 1]

Layer : HMA Base Course

Pavement Attributes - HMA Base Course

* Application Rate : 330 #/syd

* Asphalt Binder : PG 64-22

* Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI

* Mix Type : 3E3

* Mix Design No (Case Sensitive) : 13MD296

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate : Select an Aggregate

Source : -

Add Aggregate

Aggregate Summary

Aggregate	Source	
2SS	04-057	<input type="checkbox"/>
2NS	72-006	<input type="checkbox"/>
25A	72-006	<input type="checkbox"/>
WCD	72-005	<input type="checkbox"/>

Add Aggregates Edit Aggregate Remove Aggregate

Back **Complete Layer** **Restore Defaults** Cancel

Save Layer As Draft Add to Quick Layers

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	
1	HMA Base Course	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Result in the Lane Summary Screen

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	
1	HMA Base Course	Draft	<input type="checkbox"/>

Move Up Move Down Remove

- **Restore Defaults** button:
 - To reset the layer and remove all data entry
- **Save Layer As Draft** button:
 - Saves layer as **Draft** – use to save and add more data later
- **Complete Layer** button:
 - Saves layer as **Complete** – use when all data is added & complete.
- **Add to Quick Layers** button:
 - To save the layer to the job's list of Quick Layers

Result in the Lane Summary Screen

EDIT LANE DETAILS EDIT LAYER DETAILS

- Add Aggregates (from one to another layer)
 - After Saving a Layer as Complete – click ‘Add Aggregates’ (1)
 - Check the aggregates to add (2)
 - Check the layers to apply aggregates (3)
 - Click ‘Add’ (4)
 - To cancel – click ‘Back’
 - Note: Any Complete layers will not appear in list to add to
 - Note: Previously added aggregates will not be deleted

Post Construction Data | Add Aggregates Role[s] :: Data Owner , System Administrator

Add Aggregates

Lane Section 2.0 [Layer Name - 3 HMA Base Course]

Aggregate	Source	<input type="checkbox"/>
2SS	04-057	<input type="checkbox"/>
2NS	72-006	<input checked="" type="checkbox"/> (2)
2SA	72-006	<input type="checkbox"/>
WCD	72-005	<input checked="" type="checkbox"/>

(3)

Back Add (4)

Lane Draft Layers

#	Layer Name	<input type="checkbox"/>
5	HMA Top Course	<input checked="" type="checkbox"/>
4	HMA Level Course	<input checked="" type="checkbox"/>
2	Aggregate Base Course	<input type="checkbox"/>
1	Subbase	<input type="checkbox"/>

Post Construction Data | Layer Details Role[s] :: Data Owner , System Administrator

*** = Required Fields**

Select a Layer [Job # - JPS_TEST1234 / PR # - 3031548/ MP :0.9 ... 1]

Layer : HMA Base Course

Pavement Attributes - HMA Base Course

* Application Rate : 330 #/syd

* Asphalt Binder : PG 64-22

* Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI

* Mix Type : 3E3

* Mix Design No (Case Sensitive) : 13MD296

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate : Select an Aggregate

Source : -

Add Aggregate

Aggregate Summary

Aggregate	Source	<input type="checkbox"/>
2SS	04-057	<input type="checkbox"/>
2NS	72-006	<input type="checkbox"/>
2SA	72-006	<input type="checkbox"/>
WCD	72-005	<input type="checkbox"/>

Add Aggregates (1) Edit Aggregate Remove Aggregate

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft Add to Quick Layers

EDIT LANE DETAILS LANE SECTION PANE

- Move a layer up or down in list:
 - Select layer check box,
 - Click 'Move Up' to move layer up one row, or
 - Click 'Move Down' to move layer down one row
- Remove a layer from the list:
 - Select the layer check box,
 - Click 'Remove'

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	<input type="checkbox"/>
5	HMA Top Course	Complete	<input type="checkbox"/>
4	HMA Level Course	Complete	<input type="checkbox"/>
3	HMA Base Course	Complete	<input type="checkbox"/>
2	Aggregate Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Lane Details [Lane #1.0]

* Surface Type :

* Width : ft

* Lane Type :

* Year [Paved/Placed] : [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	<input type="checkbox"/>
5	HMA Top Course	Complete	<input type="checkbox"/>
4	HMA Level Course	Complete	<input type="checkbox"/>
3	Aggregate Base Course	Complete	<input type="checkbox"/>
2	HMA Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Select New Layer

Layer :

* = Required Fields

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	<input type="checkbox"/>
4	HMA Top Course	Complete	<input type="checkbox"/>
3	HMA Level Course	Complete	<input type="checkbox"/>
2	Aggregate Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

EDIT LANE DETAILS SAVING

- Click 'Save Lane As Draft':
 - Saves current lane as **Draft** – use to save and add more data/layers later
- Click 'Save Lane':
 - Saves current lane as **Complete** – use when all data/layers are added & complete

Segment Lane(s) Overview		
Lane #	Work Done	Status
1.0	Yes	Draft

Result in the Segment Overview Screen

Segment Lane(s) Overview		
Lane #	Work Done	Status
1.0	Yes	Complete

Result in the Segment Overview Screen

Lane Details [Lane #1.0]

* Surface Type : HMA full depth

* Width : 12 ft

* Lane Type : Mainline

* Year [Paved/Placed] : 2016 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane #1.0]

#	Layer Name	Data Entry Status	
5	HMA Top Course	Complete	<input type="checkbox"/>
4	HMA Level Course	Complete	<input type="checkbox"/>
3	HMA Base Course	Complete	<input type="checkbox"/>
2	Aggregate Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Select New Layer

Layer :

Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

EDIT LANE DETAILS COPY LANE

- After Saving a lane as Complete – Click ‘Copy Lane’ (1)
- Select the Completed Lane to copy from (2)
- Select the Draft Lane(s) to copy to (3)
- Options:
 - To overwrite and copy everything to selected Lane(s) – click ‘Copy’ (4)
 - Else, uncheck boxes to not overwrite – click ‘Copy’ (4)
 - To cancel – click ‘Back’

Post Construction Data | Copy Lane

Role[s] :: Data Owner, System Administrator

Instructions - Lane Details Copy [Hide] ▼

- Select a Lane from the "Completed Lanes [Copy From]" list.
- Select the Lanes from the "Incomplete Lanes [Copy To]" list to which the completed segment details are to be copied.

All the existing lane information will be lost.

Copy Options

☐ Select Option

☒ Lane Details

☒ Lane Layers

Completed Lanes [Copy From]

Lane Number	Status
<input checked="" type="radio"/> 1.0	Complete

(2)

Incomplete Lanes [Copy To]

<input type="checkbox"/> Lane Number	Status
<input type="checkbox"/> 3.0	Draft
<input checked="" type="checkbox"/> 2.0	Draft

(3)

Back Copy (4)

Post Construction Data | Lane Summary

Role[s] :: Data Owner, System Administrator

* = Required Fields

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Lanes

Select Lane : Lane #1.0 (1) Work Done : ☒ Yes ☐ No

Copy Lane Remove Lane

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:

- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #1.0]

* Surface Type : HMA full depth

* Width : 12 ft

* Lane Type : Mainline

* Year [Paved/Placed] : 2018 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

EDIT LANE DETAILS COPY TO SHOULDER(S)

- Click 'Copy Lane Layers to Shoulder(s)' (1)
- Select the Shoulder side to apply the copy to: *Both, Left, Right, or Cancel* (2)
- Warning:** For the shoulder(s) copied to, all existing Layers will be **removed** and **replaced** with those shown in the active lane

Post Construction Data | Lane Summary Role[s] :: Data Owner

* = Required Fields

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Lanes

Select Lane : Lane #1.0 Work Done : ☒ Yes ☐ No Selected Lane 1.0

Add Left Lane Add Right Lane Copy Lane Details Remove Lane

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
 - Lane 1 is the right-most travel lane of the PR segment.
 - Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
 - Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #1.0]

* Surface Type : HMA fu
 * Width : 12
 * Lane Type : Mainlin
 * Year [Paved/Placed] : 201
 * Partial Width Paving? : ☐ Yes

Lane Section [Lane # 1.0]

#	Layer Name	Status
5	HMA Top Course	Complete
4	HMA Level Course	Complete
3	HMA Base Course	Complete
2	Aggregate Base Course	Complete
1	Subbase	Complete

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

Which Shoulder side to copy layer to?

WARNING: Selected side(s) existing shoulder layers will be removed and replaced with copied layers

Both Left Right Cancel

(2)

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 961905 / MP : 4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No
 * Has Corrugations(Rumble Strip) : ☐ Yes ☒ No
 * Is Parking Lane : ☐ Yes ☒ No
 * Partial Width Paving? : ☐ Yes ☒ No
 * Paved Width : 8 Feet
 * Total Width : 8 Feet
 * Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status
5	HMA Top Course	Draft
4	HMA Level Course	Draft
3	HMA Base Course	Draft
2	Aggregate Base Course	Draft
1	Subbase	Draft

Move Up Move Down Remove

Result in the Shoulder, Curb & Gutter Details Screen

EDIT SHOULDER, CURB & GUTTER DETAILS

- Click 'Shoulder, Curb & Gutter Details'
- The Shoulder, Curb & Gutter Details screen will appear

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Left Side **Right Side**

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☐ No

* Is Parking Lane : ☐ Yes ☐ No

* Partial Width Paving? : ☐ Yes ☐ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer

Add Layer

Move Up

Move Down

Remove

Shoulder Sections

#	Layer Name	Data Entry Status	

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☐ Yes ☒ No

Back Save Shoulder, Curb & Gutter Cancel

Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

Post Construction Data | Segment Overview Role[s] :: Data Owner

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Shoulder Overview

	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview

Lane #	Work Done	Status
3.0	Yes	Complete
2.0	Yes	Complete
1.0	Yes	Complete

Lane Details

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview

* Median Type : Undivided

Segment Comments
[max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

EDIT SHOULDER, CURB & GUTTER DETAILS

- To begin – select the *Left Side* or *Right Side* tab (1)
- To **view & enter details** – click the ‘Yes’ radio button for *Work Done* (2)
- **Enter Shoulder details** – in the *Shoulder Details* pane (3)
- To **copy** the selected side to the other side – click ‘*Copy Shoulder, Curb & Gutter Details*’ (4)
- Note: Right and Left sides are established by facing the direction of increasing milepoints

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Left Side Right Side (1)

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done (2) ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☐ No

* Is Parking Lane : ☐ Yes ☐ No

* Partial Width Paving? : ☐ Yes ☐ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer

Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	

Move Up Move Down Remove

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☐ Yes ☒ No

Back Save Shoulder, Curb & Gutter Cancel

(4) Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

Segment Overview Screen

Pre-population of Shoulder Example:

JN 119085, I-475 Reconstruct

- Shoulders for PR 1497903, MP 11.310-11.342

- Left Side Pre-populated :

- Paved Surface Type = JRCP
- Paved Width = 9'
- Total Width = 10'
- Has Corrugations = Yes
- Is Parking Lane = No

- Never** Pre-populated:

- Partial Width Paving?
- Curb & Gutter
- Layers

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 1497903/ MP :11.310 ... 11.342] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☒ Yes ☐ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☐ Yes ☐ No

* Paved Width : 9

* Total Width : 10

* Shoulder Surface Type (pavement cross-section) : JRCP-Jointed Reinf Conc Pvmt

Select New Layer

Layer : Select a Layer

Add Layer

Move Up

Move Down

Remove

Curb & Gutter Details [Job # - 110749 / PR # - 1497903/ MP :11.310 ... 11.342]

* Work Done : ☐ Yes ☒ No

Back Save Shoulder, Curb & Gutter Cancel

Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 1497903/ MP :11.310 ... 11.342] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☒ Yes ☐ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☐ Yes ☐ No

* Paved Width : 9 Feet

* Total Width : 10 Feet

* Shoulder Surface Type (pavement cross-section) : JRCP-Jointed Reinf Conc Pvmt

Select New Layer

Layer : Select a Layer

Add Layer

Move Up

Move Down

Remove

Curb & Gutter Details [Job # - 110749 / PR # - 1497903/ MP :11.310 ... 11.342] Right Side

* Work Done : ☐ Yes ☒ No

Back Save Shoulder, Curb & Gutter Cancel

Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

Simplified CPM – Segment Overview Screen

- Same as full job:
 - Tabs to toggle Left and Right sides
 - Work Done question for Shoulder and Curb & Gutter
 - Curb Type drop-down list
 - Saving & Copying functions
- Different from a full job
 - Shoulder Details data entry is removed, but *Shoulder Sections* pane still shown
 - Only enter shoulder layer info

Add/Edit Shoulder Layers
(No Shoulder Details)

Simplified CPM

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details Right Side

* Work Done : ☒ Yes ☐ No

Select New Layer Layer : Select a Layer Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	
---	------------	-------------------	--

Move Up Move Down Remove

Curb & Gutter Details Right Side

* Work Done : ☒ Yes ☐ No

* Curb Type : Select Curb Type

Back Save Shoulder, Curb & Gutter Cancel

Copy Shoulder, Curb & Gutter Details Save Shoulder As Draft

EDIT SHOULDER, CURB & GUTTER DETAILS

- *Shoulder As Draft:*
 - Saves current side as **Draft** – use to save and add more data/layers later
- *Save Shoulder, Curb & Gutter:*
 - Saves current side as **Complete** – use when all data/layers are added & complete

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	No
Status	Draft	

Segment Curb & Gutter Overview		
	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Result in the Segment Overview Screen

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Segment Curb & Gutter Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Shoulder, Curb & Gutter Details

Result in the Segment Overview Screen

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner , System Administrator

*** = Required Fields**

Left Side **Right Side**

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] **Left Side**

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☒ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☐ Yes ☒ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer :

Shoulder Sections

#	Layer Name	Data Entry Status	
2	HMA Top Course	Draft	<input type="checkbox"/>
1	Cold Milling	Draft	<input type="checkbox"/>

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] **Right Side**

* Work Done : ☒ Yes ☐ No

* Curb Type : Concrete Curb & Gutter

EDIT SHOULDER, CURB & GUTTER DETAILS

- Copy
 - After Saving a side as Complete – click ‘Copy Shoulder and/or Curb & Gutter’ (1)
 - Options:
 - To overwrite and copy everything to other side – click ‘Copy to...Shoulder’ (2)
 - Or, uncheck boxes to not overwrite – click ‘Copy to...Shoulder’ (3)
 - To cancel – click ‘Back’

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☒ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☐ Yes ☒ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer

Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	
1	HMA Top Course	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No

* Curb Type : Concrete Curb & Gutter

Back Save Shoulder, Curb & Gutter Cancel

Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

Post Construction Data | Copy Shoulder and/or Curb & Gutter Role[s] :: Data Owner , System Administrator

Instructions - Shoulder Details Copy [Hide]

Select the copy option.

All the existing shoulder information will be lost.

Copy Options

Select Option

☒ Shoulder Details

☒ Shoulder Layers

☒ Curb & Gutter Details

Back Copy to Right Shoulder

EDIT SEGMENT DETAILS SAVING

- *Save Segment As Draft:*
 - Saves current segment as **Draft**
 - Lanes/Shoulder, Curb & Gutter **do not** require Status = 'Complete'
- *Click Save Segment:*
 - Saves current segment as **Complete**
 - Lanes/Shoulder, Curb & Gutter **does** require Status = 'Complete'

Successfully saved sectional information for the segment [# 4] as Draft.

PR Segment List [Hide] ▼

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map Quick Layer Overview

Result in the Road Segment List Screen

Post Construction Data | Segment Overview Role[s] :: Data Owner

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Shoulder Overview			Segment Lane(s) Overview		
	Left	Right	Lane #	Work Done	Status
Work Done	Yes	Yes	3.0	Yes	Complete
Status	Complete	Complete	2.0	Yes	Complete
			1.0	Yes	Complete

Lane Details

Segment Curb & Gutter Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Shoulder, Curb & Gutter Details

Median Overview

Median Type : Undivided

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Successfully saved sectional information for the segment [# 4].

PR Segment List [Hide] ▼

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map Quick Layer Overview

Result in the Road Segment List Screen

QUICK LAYER OVERVIEW

- Function/Purpose:
 - Create/add 'Quick Layers' to segments' lanes/shoulders within a single screen
 - Makes adding/editing layers faster and easier to do
 - This works the same for *Simplified CPM* (adds layers to segments, not lanes)
- Click *Quick Layer Overview*
 - The Quick Layers Overview screen will appear

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Create/Modify Quick Layers Add Quick Layers

Select New Layer

Layer :

User Specified :

Name

Add Quick Layer

#	Layer Name	User Specified Name	Data Entry Status	
				<input type="checkbox"/>

Remove

Back Save

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details: Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
4	961905	4.465	4.499

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

QUICK LAYER OVERVIEW CREATE/MODIFY

- To **add** a 'Quick Layer', in the Select New Layer pane:
 - Select the Layer in the drop-down list (1)
 - Enter a unique name in the text box (2)
 - Click 'Add Quick Layer' (3)
- Edit** the layer in the Pavement Attributes pane and Aggregate panes
- NOTE: Each 'Quick Layer' must have a unique name

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Create/Modify Quick Layers Add Quick Layers

Select New Layer

Layer : HMA Top Course

User Specified : SE3

Name

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status
1	HMA Top Course	SE3	Draft

Add Quick Layer

Back Save

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Create/Modify Quick Layers Add Quick Layers

Select New Layer

Layer : Select a Layer

User Specified :

Name

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status
1	HMA Top Course	SE3	Draft

Add Quick Layer

Pavement Attributes - HMA Top Course

* AWT (Actual) : [Numeric Value]

Application Rate : Select Application Rate #/syd

* Asphalt Binder : Select Asphalt Binder

* Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier

* Mix Type : Select Mix Type - HMA Top Course

* Mix Design No (Case Sensitive) :

* Warm Mix? : Yes No

* Shingles used in the mix? : Yes No

Select New Aggregate

* Aggregate : Select an Aggregate

Source : -

Add Aggregate

Aggregate Summary

Aggregate	Source
Empty - Add Aggregates	

Remove Aggregate

Save Layer Restore Defaults

Back Save

QUICK LAYER OVERVIEW CREATE/MODIFY

- To save a 'Quick Layer', click 'Save Layer'
- NOTE: If attributes are missing, the Data Entry Status is saved as Draft. If all attributes are entered, it is Complete.
- WARNING: Clicking Save, is **not** the same as Save Layer. Click Save Layer **before** clicking Save.

Incomplete

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Create/Modify Quick Layers Add Quick Layers

Select New Layer
Layer : Select a Layer
User Specified :
Name

Add Quick Layer Remove

#	Layer Name	User Specified Name	Data Entry Status
1	HMA Top Course	SE3	Draft

Pavement Attributes - HMA Top Course

- AWI (Actual) : 263 [Numeric Value]
- Application Rate : 165 #/syd
- Asphalt Binder : PG 70-28P
- Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI
- Mix Type : Select Mix Type - HMA Top Course
- Mix Design No (Case Sensitive) : Missing
- Warm Mix? : Yes No
- Shingles used in the mix? : Yes No

Aggregates should be provided for HMA Top Course

Select New Aggregate
Aggregate : Select an Aggregate
Source : -

Add Aggregate Remove Aggregate

Aggregate	Source
Empty - Add Aggregates	

Remove Aggregate Missing

Save Layer Restore Defaults

Back Save

Complete

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Successfully completed the layer information.

Create/Modify Quick Layers Add Quick Layers

Select New Layer
Layer : Select a Layer
User Specified :
Name

Add Quick Layer Remove

#	Layer Name	User Specified Name	Data Entry Status
1	HMA Top Course	SE3	Complete

Pavement Attributes - HMA Top Course

- AWI (Actual) : 263 [Numeric Value]
- Application Rate : 165 #/syd
- Asphalt Binder : PG 70-28P
- Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI
- Mix Type : SE3
- Mix Design No (Case Sensitive) : 13MD123
- Warm Mix? : Yes No
- Shingles used in the mix? : Yes No

Select New Aggregate
Aggregate : Select an Aggregate
Source : -

Add Aggregate Remove Aggregate

Aggregate	Source
22A	02-004
2NS	04-012

Save Layer Restore Defaults

Back Save

QUICK LAYER OVERVIEW CREATE/MODIFY

- To **change** the active 'Quick Layer', click the layer name in the Quick Layers List pane
- To **remove** 'Quick Layer', select the layer checkbox and click 'Remove'

Change Quick Layer

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Create/Modify Quick Layers Add Quick Layers

Select New Layer

Layer :

User Specified :

Add Quick Layer

#	Layer Name	User Specified Name	Data Entry Status	
2	HMA Level Course	4E3	Complete	<input type="checkbox"/>
1	HMA Top Course	5E3	Complete	<input type="checkbox"/>

Remove

Pavement Attributes - HMA Level Course

* Application Rate : #/syd

* Asphalt Binder :

* Asphalt Binder Cert. Supplier :

* Mix Type :

* Mix Design No (Case Sensitive) :

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate :

Source : -

Add Aggregate

Aggregate	Source	
22A	02-004	<input type="checkbox"/>

Remove Aggregate

Save Layer Restore Defaults

Back Save

Remove Quick Layer

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Create/Modify Quick Layers Add Quick Layers

Select New Layer

Layer :

User Specified :

Add Quick Layer

#	Layer Name	User Specified Name	Data Entry Status	
1	HMA Top Course	5E3	Complete	<input type="checkbox"/>

Remove

Pavement Attributes - HMA Top Course

* AWI (Actual) : [Numeric Value]

* Application Rate : #/syd

* Asphalt Binder :

* Asphalt Binder Cert. Supplier :

* Mix Type :

* Mix Design No (Case Sensitive) :

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate :

Source : -

Add Aggregate

Aggregate	Source	
22A	02-004	<input type="checkbox"/>
2NS	04-012	<input type="checkbox"/>

Remove Aggregate

Save Layer Restore Defaults

Back Save

QUICK LAYER OVERVIEW CREATE/MODIFY

- After all layers are complete and layer saved:
 - Click '**Save**' (at bottom of screen)
- ***WARNING: Always click Save before clicking Back or Add Quick Layers tab. Otherwise, all added layers or changes will be lost***

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Successfully saved quick layers information.

Create/Modify Quick Layers Add Quick Layers

Select New Layer
Layer :
User Specified :
Name :
Add Quick Layer

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status	
2	HMA Level Course	4E3	Complete	<input type="checkbox"/>
1	HMA Top Course	5E3	Complete	<input type="checkbox"/>

Remove

Pavement Attributes - HMA Level Course

- * Application Rate : #/syd
- * Asphalt Binder :
- * Asphalt Binder Cert. Supplier :
- * Mix Type :
- * Mix Design No (Case Sensitive) :
- * Warm Mix? : ☐ Yes ☒ No
- * Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate
* Aggregate :
Source : -
Add Aggregate

Aggregate Summary

Aggregate	Source	
22A	02-004	<input type="checkbox"/>

Remove Aggregate

Save Layer Restore Defaults

Back **Save**

QUICK LAYER OVERVIEW

ADD QUICK LAYERS

- After all layers are complete, layer saved, and screen saved:
 - Click 'Add Quick Layers' tab
 - Unsaved data warning will always appear (even if you did save)

Note: This is now the active tab (shown in orange)

Quick Layers Overview | Role[s] :: Data Owner

Create/Modify Quick Layers | **Add Quick Layers**

Select New Layer

Layer :

User Specified Name :

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status
2	HMA Level Course	4E3	Complete

This site says...

Any unsaved data in this project will be lost - proceed?

Pavement

* Apply

* Asphalt

* Asphalt

* Mix

Mix Design No (Case Sensitive) :

Warm Mix? : ☐ Yes ☒ No

Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate :

Source :

Add Aggregate

Aggregate Summary

Aggregate	Source
22A	02-004

Remove Aggregate

Save Layer | Restore Defaults

Back | Save

Quick Layers Overview | Role[s] :: Data Owner

Create/Modify Quick Layers | **Add Quick Layers**

PR Segment List [Hide] ▼

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Lanes and Shoulders [Hide] ▼

#	Lane/Shoulder
---	---------------

Lane/Shoulder Sections

#	Layer Name	Data Entry Status
---	------------	-------------------

Move Up | Move Down | Remove

Add Quick Layer ▲

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status	
<input type="radio"/>	2	HMA Level Course	4E3	Complete
<input type="radio"/>	1	HMA Top Course	5E3	Complete

Back | Save

QUICK LAYER OVERVIEW

ADD QUICK LAYERS

- To add a 'Quick Layer':

- (1) Select a segment's radio button, (then Lanes and Shoulders pane appears below)
- (2) Select a lane or shoulder radio button, (then Lane/Shoulder Sections pane appears below)
- (3) Select a quick layer radio button
- (4) Click *Add Quick Layer* (above), (quick layer is added to Lane/Shoulder Section pane)

(1)

Post Construction Data | Quick Layers Overview

Create/Modify Quick Layers Add Quick Layers

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/> 1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/> 2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/> 3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/> 4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/> 5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Lanes and Shoulders [Hide] ▼

#	Lane/Shoulder
<input type="radio"/> 3.0	Lane
<input type="radio"/> 2.0	Lane
<input type="radio"/> 1.0	Lane
<input type="radio"/> Left	Shoulder
<input type="radio"/> Right	Shoulder

(Appears)

Lane/Shoulder Sections

#	Layer Name	Data Entry Status
2	HMA Top Course	Complete
1	Cold Milling	Complete

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status
<input type="radio"/> 2	HMA Level Course	4E3	Complete
<input type="radio"/> 1	HMA Top Course	5E3	Complete

Back Save

Post Construction Data | Quick Layers Overview

Create/Modify Quick Layers Add Quick Layers

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/> 1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/> 2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/> 3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/> 4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/> 5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Lanes and Shoulders [Hide] ▼

#	Lane/Shoulder
<input type="radio"/> 3.0	Lane
<input type="radio"/> 2.0	Lane
<input type="radio"/> 1.0	Lane
<input checked="" type="radio"/> Left	Shoulder
<input type="radio"/> Right	Shoulder

(2)

Lane/Shoulder Sections

#	Layer Name	Data Entry Status
2	HMA Top Course	Complete
1	Cold Milling	Complete

(Appears)

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status
<input type="radio"/> 2	HMA Level Course	4E3	Complete
<input type="radio"/> 1	HMA Top Course	5E3	Complete

Back Save

Post Construction Data | Quick Layers Overview

Create/Modify Quick Layers Add Quick Layers

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/> 1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/> 2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/> 3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/> 4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/> 5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Lanes and Shoulders [Hide] ▼

#	Lane/Shoulder
<input type="radio"/> 3.0	Lane
<input type="radio"/> 2.0	Lane
<input type="radio"/> 1.0	Lane
<input checked="" type="radio"/> Left	Shoulder
<input type="radio"/> Right	Shoulder

Lane/Shoulder Sections

#	Layer Name	Data Entry Status
3	HMA Level Course	Complete
2	HMA Top Course	Complete
1	Cold Milling	Complete

(4)

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status
<input checked="" type="radio"/> 2	HMA Level Course	4E3	Complete
<input type="radio"/> 1	HMA Top Course	5E3	Complete

(3)

Back Save

QUICK LAYER OVERVIEW

ADD QUICK LAYERS

- To **move** a layer:
 - In the Lane/Shoulder Sections pane, select the layer checkbox
 - Click 'Move Up' –or- 'Move Down'
- To **delete** a layer:
 - In the Lane/Shoulder Sections pane, select the layer checkbox
 - Click 'Remove'

Lane/Shoulder Sections			
#	Layer Name	Data Entry Status	<input type="checkbox"/>
3	HMA Level Course	Complete	<input checked="" type="checkbox"/>
2	HMA Top Course	Complete	<input type="checkbox"/>
1	Cold Milling	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Lane/Shoulder Sections			
#	Layer Name	Data Entry Status	<input type="checkbox"/>
3	HMA Top Course	Complete	<input type="checkbox"/>
2	HMA Level Course	Complete	<input checked="" type="checkbox"/>
1	Cold Milling	Complete	<input type="checkbox"/>

Move Up Move Down Remove

QUICK LAYER OVERVIEW ADD QUICK LAYERS

- To **edit** a layer:
 - In the Lane/Shoulder Sections pane, select the layer name
 - The Layer Details screen will appear
 - Edit attributes and save (using *Complete Layer* or *Save Layer As Draft*)
 - Click Back to return to the Quick Layer Overview screen

Lane/Shoulder Sections			
#	Layer Name	Data Entry Status	
3	HMA Top Course	Complete	<input type="checkbox"/>
2	HMA Level Course	Complete	<input type="checkbox"/>
1	Cold Milling	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Post Construction Data | Layer Details Role[s] :: Data Owner

*** = Required Fields**

Select a Layer

Layer : HMA Top Course
HMA Level Course
 Cold Milling

Pavement Attributes - HMA Level Course

* Application Rate : 220 #/syd

* Asphalt Binder : PG 70-28P

* Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI

* Mix Type : 4E3

* Mix Design No (Case Sensitive) : 13MD124

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate : Select an Aggregate

Source : -

Add Aggregate

Aggregate Summary

Aggregate	Source	
22A	02-004	<input type="checkbox"/>

Remove Aggregate

Back **Complete Layer** Restore Defaults Cancel

Save Layer As Draft Add to Quick Layers

QUICK LAYER OVERVIEW

ADD QUICK LAYERS

- After all layers are added to the current lane or shoulder:
- Click '**Save**' (at bottom of screen)
- **WARNING:** *Always* click *Save* **before** selecting a new segment/lane/shoulder radio button, *Back*, or *Create/Modify Quick Layers* tab. Otherwise, all added layers or changes will be lost

Post Construction Data | Quick Layers Overview Role[s] :: Data Owner

Successfully saved quick layers information.

Create/Modify Quick Layers Add Quick Layers

PR Segment List [Hide] ▼									
	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Lanes and Shoulders [Hide] ▼		
	#	Lane/Shoulder
<input type="radio"/>	3.0	Lane
<input type="radio"/>	2.0	Lane
<input type="radio"/>	1.0	Lane
<input checked="" type="radio"/>	Left	Shoulder
<input type="radio"/>	Right	Shoulder

Lane/Shoulder Sections			
#	Layer Name	Data Entry Status	
3	HMA Top Course	Complete	<input type="checkbox"/>
2	HMA Level Course	Complete	<input type="checkbox"/>
1	Cold Milling	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Add Quick Layer ^

Quick Layers List				
	#	Layer Name	User Specified Name	Data Entry Status
<input checked="" type="radio"/>	2	HMA Level Course	4E3	Complete
<input type="radio"/>	1	HMA Top Course	SE3	Complete

Back Save

ADD TO QUICK LAYERS FROM LAYER DETAILS

- **Add** to the list of 'Quick Layers' **“on the fly”** while working on the job, in any Layer Details screen:
 - Click 'Add to Quick Layers' (1)
 - Enter the name in the pop-up window (2)
 - Click 'Ok' (3)

Post Construction Data | Layer Details Role[s] :: Data Owner

*** = Required Fields**

Select a Layer

Layer : Cold Milling

Pavement Attributes - Cold Milling

* Cold Milling Depth : 1.5 in

Cold Milling Type : Uniform Depth of Milling per Plan

* Cold Milling Equipment : Standard

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft **Add to Quick Layers**

User specified Name for Quick Layer : 1.5" CM

Ok Cancel

Create/Modify Quick Layers Add Quick Layers

Select New Layer

Layer : Select a Layer

User Specified :

Add Quick Layer

Quick Layers List

#	Layer Name	User Specified Name	Data Entry Status	
3	Cold Milling	1.5" CM	Complete	<input type="checkbox"/>
2	HMA Level Course	4E3	Complete	<input type="checkbox"/>
1	HMA Top Course	5E3	Complete	<input type="checkbox"/>

Remove

Result in the Quick Layer Overview Screen

COPY SEGMENT DETAILS

- Click 'Copy Segment Details' (1)
- In the Copy Segment Details screen, select:
 - The **Completed** segment to **copy from** (select only one) and (2)
 - The **Draft** segment to **copy to** (can select multiple) (3)
- Click 'Copy Details' (4)
- WARNING: All segment details (lanes, shoulders/curb & gutter) will be overwritten

Copy From
Complete Segment

Copy To
Draft Segments

Post Construction Data | Copy Segment Details Role[s] :: Data Owner

Instructions - Segment Details Copy [Hide] ▼

- Select a Segment from the "Completed Segments [Copy From]" list.
- Select the Segments from the "Incomplete Segments [Copy To]" list to which the completed segment details are to be copied.

All the existing segment information will be lost.

Completed Segments [Copy From]									
#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete

Incomplete Segments [Copy To]									
<input type="checkbox"/>	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="checkbox"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input checked="" type="checkbox"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="checkbox"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input type="checkbox"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Back Copy Details

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼									
	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Quick Layer Overview

Copy Segment Details (1)

Create Segment Delete Segment View Map

Change PR Segment Mile Points			
#	PR Number	BMP	EMP
4	961905	4.465	4.499

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

(4)

COPYING EXAMPLE

- Using *Copy Lane* or *Copy Segment Details* can reduce data entry time and errors
- For Example:
 - Segment 1 has three lanes with identical info
 - Segment 2 has three lanes with different info, but Lane 1 is identical to Lane 1 of Segment 1

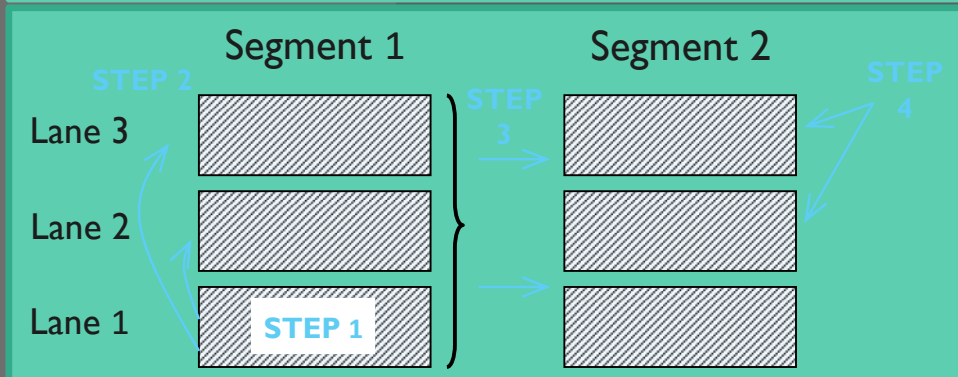
	Segment 1	Segment 2
Lane 3		
Lane 2		
Lane 1		

Cross-hatch = same cross-section, materials, etc.

COPYING EXAMPLE (CONT.)

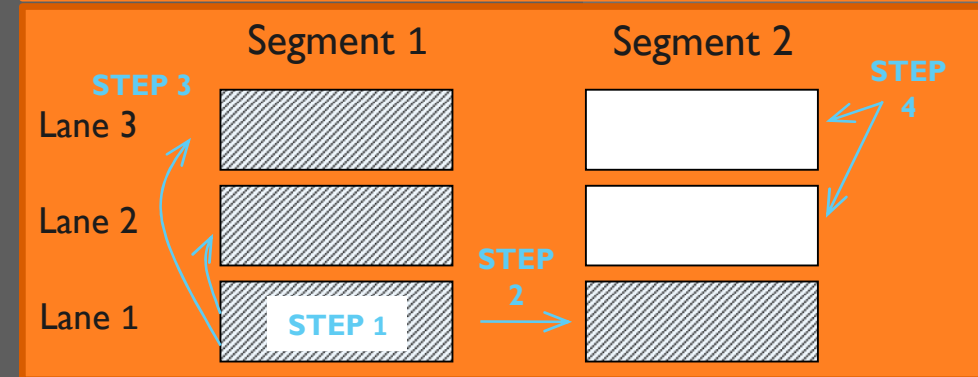
Example 1:

1. Establish Lane 1 in Segment 1
2. Copy Lane 1 to Lanes 2 and 3 in Segment 1
3. Copy Segment 1 to Segment 2
4. Make changes to Lanes 2 and 3 in Segment 2 as appropriate



Example 2:

1. Establish Lane 1 in Segment 1
2. Copy Segment 1 to Segment 2
3. Copy Lane 1, Segment 1 to Lanes 2 and 3 in Segment 1
4. Create and edit Lanes 2 and 3 in Segment 2 (or copy Lane 1 to Lanes 2 and 3 and then edit)



COMMENT BOXES

- Comment boxes are used to enter project specific details or additional information relating to the project or a particular segment
- Users can enter up to 250 characters of text

Post Construction Data | Road Segment List

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Complete
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Complete
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
4	961905	4.465	4.499

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

This job was constructed concurrently with job 110441.

Back Finalize Job Save Job as Draft Cancel

Project Summary

PROJECT Comments

Post Construction Data | Segment Overview

Role[s] :: Data Owner

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Shoulder Overview

	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Segment Lane(s) Overview

Lane #	Work Done	Status
3.0	Yes	Complete
2.0	Yes	Complete
1.0	Yes	Complete

Lane Details

Segment Curb & Gutter Overview

	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Shoulder, Curb & Gutter Details

Median Overview

* Median Type : Undivided

Segment Comments [max 250 characters]

As Built information could not be located for this segment.

Back Save Segment Save Segment As Draft Cancel

Segment Summary

SEGMENT Comments

PROJECT/SEGMENT SUMMARY

- Click *Project Summary* in the Road Segment List screen, or
- Click *Segment Summary* in the Segment Overview screen
 - A PDF format pop-up summary will appear
 - The summary is an excellent resource for QA/review of entered data

Project Comments [max 250 characters]

This job was constructed concurrently with job 110441.

Back Finalize Job Save Job as Draft Cancel

Project Summary

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Project Summary

Job Summary

Job Number	Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes	Special Project Type	Pavement Study Number
80912	163 - Concrete Reconstruction	26		09/20/2016 ^[4]	0	N/A	N/A

^[1] - Construction Cost or A Phase CTD from MPINS / ^[4] - Open to Traffic Date / ^[4] - Let Date / ^[4] - A Phase start date / ^[4] - Sufficiency Year Imp

Segment Details

Region	TSC	County	Route	PR Number	PR BMP	PR EMP
Bay	Huron	St. Clair	1-69	962706	10.505	10.789

Median Type: Undivided / Median Width: 0 ft

Lane [1.0], Lane Type [Mainline], Sectional Details [Surface Type:HMA full depth / Width: 12.00 ft / Partial Width Paving: No / Paving Width: N/A]

Year Constructed	Pavement	Attribute	Value	Aggregate	Pit / Source
		AWT (Actual)	283	2NS	72-006
		Application Rate	165 Pounds Per Square Yard	21A	13-078
		Asphalt Binder	PG 70-28P		
		Asphalt Binder Certified Supplier	Ajax Asphalt Terminal, Detroit, MI		
		Mix Design No. (Case Sensitive)	13MD299		
		Mix Type - HMA Top Course	SE3		
		Shingles Used	N		
		Warm Mix	N		
		Application Rate	220 Pounds Per Square Yard	22A	13-003
		Asphalt Binder	PG 70-28P	2NS	72-006
		Asphalt Binder Certified Supplier	Ajax Asphalt Terminal, Detroit, MI		
		Mix Design No. (Case Sensitive)	13MD297		

Segment Summary

Job Summary

Job Number	Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes	Special Project Type	Pavement Study Number
80912	163 - Concrete Reconstruction	26		09/20/2016 ^[4]	0	N/A	N/A

^[1] - Construction Cost or A Phase CTD from MPINS / ^[4] - Open to Traffic Date / ^[4] - Let Date / ^[4] - A Phase start date / ^[4] - Sufficiency Year Imp

Segment Details

Region	TSC	County	Route	PR Number	PR BMP	PR EMP
Bay	Huron	St. Clair	M-19	961905	4.465	4.499

Median Type: Undivided / Median Width: 0 ft

Lane [1.0], Lane Type [Mainline], Sectional Details [Surface Type:HMA full depth / Width: 12.00 ft / Partial Width Paving: No / Paving Width: N/A]

Year Constructed	Pavement	Attribute	Value	Aggregate	Pit / Source
		AWT (Actual)	283	2NS	72-006
		Application Rate	165 Pounds Per Square Yard	21A	13-078
		Asphalt Binder	PG 70-28P		
		Asphalt Binder Certified Supplier	Ajax Asphalt Terminal, Detroit, MI		
		Mix Design No. (Case Sensitive)	13MD299		
		Mix Type - HMA Top Course	SE3		
		Shingles Used	N		
		Warm Mix	N		
		Application Rate	220 Pounds Per Square Yard	22A	13-003
		Asphalt Binder	PG 70-28P	2NS	72-006
		Asphalt Binder Certified Supplier	Ajax Asphalt Terminal, Detroit, MI		
		Mix Design No. (Case Sensitive)	13MD297		

SAVE JOB AS DRAFT OR FINALIZE JOB

- **Save Job as Draft:**
 - Saves job and keeps the job in the Modify area (Data Entry or Data Owner), or
 - Saves job and moves the job from the Review area to the Modify area (Data Owner)
- **Finalize Job:**
 - Saves job and moves the job to the Review area (Data Entry), or
 - The job is finalized and sent to the PHD database (Data Owner)

Auto Generated E-mail Enhancement!

Post Construction Data | Modify List Role[s] :: Data Owner, System Administrator

Search Filter [Show] ▲

Job [80912] has been saved as a Draft.

MAP Job ID ▲	Non MAP Job ID	Non MAP Job Type	Work Type
333333	—	—	310—New Routes
45824	—	—	169—Cnrc Pv Rubb & Bit Resurf
80912	—	—	163—Concrete Reconstruction
83996	—	—	170—Major Rehabilitation
84072	—	—	163—Concrete Reconstruction

Page: 1 of 7

Navigation: [K] [] 1 2 3 4 5 [] []

Post Construction Data | Road Segment List Role[s] :: Data Owner

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	962706	16	10.505	10.789	I-69	E	Active	Complete
2	962706	16	10.789	11.123	I-69	E	Active	Complete
3	962706	16	11.123	11.554	I-69	E	Active	Complete
4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
5	961905	16	4.499	4.719	M-19	N/S	Active	Complete

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Point

#	PR Number	BMP
1	962706	10.505

Apply Milepoint Changes

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

miloginworkerqa.michigan.gov says:
Do you want to Save this job as a Draft?
☐ Prevent this page from creating additional dialogs.
OK Cancel

miloginworkerqa.michigan.gov says:
Do you want to Finalize the job?
☐ Prevent this page from creating additional dialogs.
OK Cancel

Back Finalize Job Save Job as Draft Cancel

Project Summary

Post Construction Data | Review List Role[s] :: Data Owner, System Administrator

Search Filter [Show] ▲

Job [80912] has been finalized.

MAP Job ID ▲	Non MAP Job ID	Non MAP Job Type	Work Type
333333	—	—	310—New Routes
45824	—	—	169—Cnrc Pv Rubb & Bit Resurf
83996	—	—	170—Major Rehabilitation
84072	—	—	163—Concrete Reconstruction
87379	—	—	405—Overband Crack Fill

Page: 1 of 7

Navigation: [K] [] 1 2 3 4 5 [] []

MODIFY LIST SCREEN

- Once a job has been created, it can be later modified/edited (unless it was Finalized)
- The Modify table will be populated with the jobs that are currently assigned to you
 - A job is only available to the person it is assigned to

Post Constr. Data

- » Create
- » **Modify**
- » Review
- » Reassign

+ Reports & Searches

Post Construction Data | Modify List Role[s] :: Data Owner

Search Filter [Hide] ▼

Job Type : ☐ MAP Job ☐ Non MAP Job ☒ Both

Work Type : Any ▼

MAP Job Details		Non MAP Job Details	
MAP Job Id	: %	Non MAP Job Id	: %
		Non MAP Job Type	: Any ▼

Apply Filter Reset Filter

MAP Job ID	Non MAP Job ID	Non MAP Job Type	Work Type
45068	—	—	155—Crk & Surfac Ovr Old Pv
45883	—	—	142—Resurf, Mill & Pulver
59850	—	—	163—Concrete Reconstruction
87144	—	—	407—Ultra-Thin Bituminous Overlay (< 20mm)
101332	—	—	160—Recnst Exist, No Widen

Page: 1 of 2

Navigation: [Previous] [1] [2] [Next]

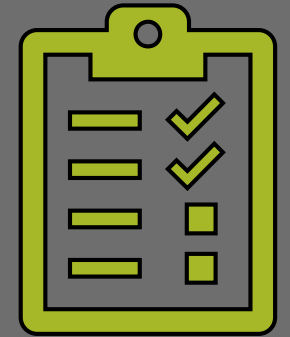
4 – DATA OWNER REVIEW OVERVIEW

DATA OWNER RESPONSIBILITY

- Data Owners review all segments/lanes/layers in a job
 - Project & Segment Summary reports are very helpful
- If Data Owner finds errors/omissions, 2 options:
 1. Data Owner makes changes & Finalize job
 - OR -
 2. Data Owner reassigns the job back to Data Entry user:
 - i. Click on Save Job As Draft to send it back to Draft Status,
 - ii. Job will appear in the Data Owner's list of jobs in Modify area,
 - iii. Data Owner uses the Reassign area to assign it to a Data Entry user for corrections/changes,
 - iv. Data Owner to notify (email, phone, etc.) the Data Entry user

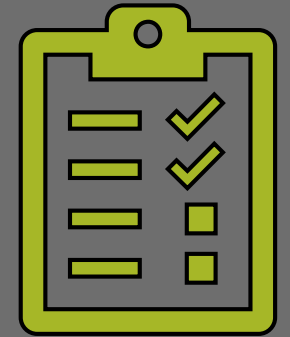
COMMON ENTRY ERRORS TO LOOK FOR

- **Incorrect project PR numbers and milepoints**
- **Segments input in the wrong direction**
- **Over/Under segmentation**
- **Omitted/Missing items:**
 - Work items (*Example: ramps or pre-overlay work*)
 - Lanes, Shoulder, Curb & Gutter / Layers / Attributes
 - Non-required layer attributes that are known/obtainable
 - Aggregates from a mix design
 - Warm mix designation (incorrect or missing)



COMMON ENTRY ERRORS TO LOOK FOR

- **Layers:**
 - Layers in the wrong order (upside down)
 - Extra/duplicated layers
- **Lane Numbering:**
 - Lane 1 not a mainline lane
 - Lane 0, -1, etc. being a mainline lane
- **Incorrect Lane/Shoulder, Curb & Gutter:**
 - Surface Type
 - Lane/shoulder Widths
 - Lane Type
- **Copying errors**



5 – CENTRAL OFFICE QA

QUALITY ASSURANCE PROCESS

- QA begins immediately following the **January 31st** entry closing date
- 2 Part evaluation process:



Part 1
Completeness



Part 2
Accuracy

QUALITY ASSURANCE PROCESS

- Part 1 – Completeness
 - Are all pavement jobs entered?
 - Info compared from MAP to PHD
 - Discrepancies e-mailed to verify if job(s) should be entered
 - If confirmed missing, then Data Entry user enters missing job
- Part 2 – Accuracy
 - Are jobs entered correctly?
 - Completed PHD projects are sampled at random* for each Region
 - Compare info from plans & other PWISE resources to PHD
 - Possible errors are sent to the Data Entry person to verify/correct

**Accounts for approx. 15% of all entered jobs.
This is not a verification of all jobs.*



RESOURCES

ProjectWise (P Wise):

- <https://mdotjboss.state.mi.us/SpecProv/projectwisesupport.htm>
- Plans/proposal/addendum
- Pay Items/Tickets/Field Notes/Mix Designs

Construction Inquiry System:

- <https://mdotcf.state.mi.us/public/trnsport/>
- Summary of project items (pay items completed)

PR finder:

- <https://lrs.state.mi.us/portal/apps/webappviewer/index.html?id=c3aa2462a1e24e37a33184a33e5976aa>
- Find PR via CS, intersection, road name, interactive map

JobNet & ACRS

- Find programmed MDOT jobs – MAP info

6 – DATA EXPORT / REPORTS OVERVIEW

PHD REPORTS AND SEARCHES

- PHD Reports and Searches:

- Search Segment(s) – finds segments within finalized jobs
- Export Data – generates selectable data items (Excel)
- Construction History Report – generates segment/job info (PDF)
- Material Information Report – finds segments per materials (PDF or Excel)
- Material Quantity Report – quantities of HMA and PCC per time period (PDF or Excel)
- Network Inventory Report – lane-miles of rigid/flexible/comp lanes or shoulders (PDF or Excel)
- Work Type Report – finds segments by work type code (PDF or Excel)
- MAP Reconciliation – finds jobs from MAP which are not entered into PHD (PDF)

– Reports & Searches	
»	Export Data
»	Search Segment(s)
»	Construction History
»	Material Information
»	Material Quantity
»	Network Inventory
»	Work Type
»	MAP Reconciliation



7 – FAQ / BUSINESS RULES

JOB DATA ENTRY

- **Multiple job numbers** for a project:
 - Enter pavement work associated with each job number separately
 - Enter only job numbers with pavement work
- How do I enter **Multi-year** construction?
 - Keep it in Draft status until the project is complete
 - Add notes to the Comment Boxes
- Jobs with **segments outside your jurisdiction (location)** cannot be started/accessed:
 - Contact the PHD Administrator
- How do I **edit a Finalized job** in the PHD database?
 - Contact the PHD Administrator to unlock it and reassign it
 - The Administrator will need to know the Job ID

SEGMENT DATA ENTRY

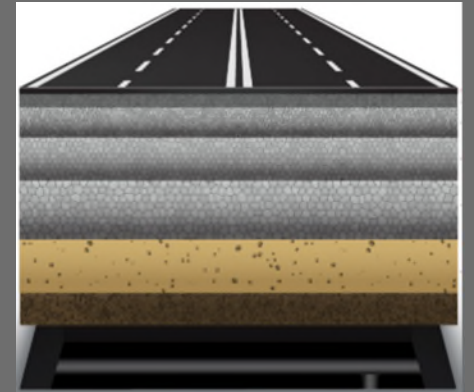
- **Only** enter work done on **MDOT trunkline**
 - Local roadways should not be entered into PHD
- PHD uses **PR info** and PR milepoints might not match CS milepoints:
 - Use MDOT PR Finder to collect numbers and milepoints
- Auto-populated PHD **segments show incorrect milepoints** (i.e. as-constructed differs from MAP):
 - Change milepoints in PHD
- **Maintenance cross-overs** are not entered
 - Even if they have PR numbers
- Enter **Median Type and Width** (predominant/average) even if no work was conducted on the median
- **Ramps:**
 - PR begins or ends at 2' point
 - Portions of ramp adjacent to mainline are entered with mainline to the 2' point

LANE, SHOULDER/CURB & GUTTER DATA ENTRY

- **Surface Type:**
 - Account for entire cross-section, even those not constructed in current job
- **Partial curb & gutter work** – how much requires entry in PHD?
 - More than 5% of the total length of the curb & gutter is replaced –
 - Select ‘Yes’ for Curb & Gutter Work Done (no need to segment on those locations) &
 - Add comment that replacement is intermittent

LAYER DATA ENTRY

- **Layer is variable thicknesses:**
 - Use average
- **Layers order:**
 - Matches how pavement is constructed, bottom to top
- Can I enter **shoulder chip seals, crack seals, etc.?**
 - Yes, add the layer in the Shoulder Section pane



LAYER AGGREGATES

- **HMA aggregate types not in the drop-down list:**
 - Select 'Other Aggregate'
 - Enter the aggregate name in the new text box
- How to enter **BORROW** material aggregates:
 - Select the Aggregate from the list, **or**
 - Select 'Other Aggregate' (for non-standard)
 - Enter the material in the new text box
 - For source number:
 - 1st box (two digits): county of origin
 - 2nd box (three digits): '000'



LAYER AGGREGATES

- How to enter **RECYCLE** aggregates (incl. crush conc.):
 - Locate the associated county and pit number
 - This is found in the **acceptance testing** of the recycled agg
- How to enter **DOCK** aggregates:
 - Dock aggregate is not the agg name, source, or pit
 - Dock aggs are those that were shipped in and stored at a dock
 - Dock aggs come from the *prequalified aggregate list*, so they do have an actual name and source/pit number
 - **The aggregate tickets should provide the actual name & number information**



GENERAL

- If entry for Layers, measurement units, suppliers, materials, or entry items are missing in PHD:
 - Contact the PHD Administrator
- Can **consultants** enter data in PHD?
 - Yes! Approved consultants are granted 2-year approval periods (can be renewed)
 - They use the **third party MILogin**
 - Before signing up, consultants must follow the [Consultant Request Protocol](#) and submit this info to a PHD Admin:
 1. Approval email from an MDOT Region or TSC representative
 2. Identify the job(s) that will be assigned to the consultant user
 - To help your consultants, use public PHD info website:
 - https://www.michigan.gov/mdot/0,4616,7-151-9623_26663_27303_106900---,00.html

PHD ACCESS

- Use appropriate **MILogin** link to access PHD
 - Do not use QA or Development version of MILogin
 - If you are having trouble accessing MILogin, make sure that you're using the correct link

MDOT Employees

<https://miloginworker.michigan.gov/uisecure/selfservice>

Consultants

<https://milogintp.michigan.gov/eai/tplogin/authenticate?URL=/>

PHD INFORMATIONAL WEBSITE

- **Public:**

- https://www.michigan.gov/mdot/0,4616,7-151-9623_26663_27303_106900---,00.html

- **MDOT Internal:**

- https://stateofmichigan.sharepoint.com/sites/mdot/Organizational/field_services/construction/phd/SitePages/Home.aspx

- Links to Resources
- Helpful Documents:
 - FAQ, Business Rules, Quick Reference Guide, list of data items, etc.
- Training Presentations

PHD INFORMATIONAL WEBSITE (PUBLIC)

MDOT
Michigan Department of Transportation

Search

Roads and Travel
Public Transportation
Rail
Bridges and Structures
News and Information
Projects and Programs
Maps
Reports, Publications and Specs
About MDOT
Commissions, Councils & Committees
Executive
Finance & Administration
Field Services
Construction Field Services
Research Administration
Transportation Systems Management Operations
Development
Transportation Planning
Jobs & Careers

MDOT / ABOUT MDOT / FIELD SERVICES / CONSTRUCTION FIELD SERVICES

Pavement Historical Database (PHD)
Pavement Historical Database (PHD) is a centralized electronic data warehouse. It is designed to collect and store pavement "as built" typical section information and materials data on Michigan's state-owned roads. The data can be quickly and easily searched, sorted, and exported.

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Pavement Design Engineer
517-636-4920

Justin Schenkel, P.E.
Pavement Design Engineer
517-242-2788

[Receive E-mail Updates](#)
Sign up to receive PHD e-mail updates through MDOT's GovDelivery e-mail system.

Quick Links
• Title VI
• Nondiscrimination
• Tribal Governments
• Twitter Facebook
• YouTube
• Mi Drive
• State Map

Guides and References
[PHD User Guide](#)
[Data Entry Items in PHD](#)
[Quick Reference Guide](#)
[PHD Data Entry References](#)
[PHD Consultant Request Protocol](#)
[PHD Data Spreadsheet](#)
[PHD Review Checklist](#)
[PHD Attribute Locations](#)

Training
[PHD Full Training 2020](#)
[PHD Refresher Training 2020](#)

Frequently Asked Questions
[General Overview](#)
[Training](#)
[Data Entry](#)
[Quality Assurance \(Data Review\)](#)
[Reports & Searches](#)

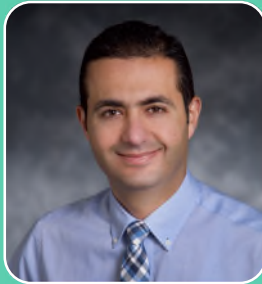
Resources
[PHD Sign-in through MILogin](#)
[PR Finder](#)
[Construction Contract Inquiry System](#)

8 – ADMINISTRATION

ADMINISTRATORS CAN...

- Grant access to PHD
- Assign or change user roles (i.e. *Data Owner, Data Entry, or Read Only*)
- Assign or change user location (i.e. *Statewide, Region, TSC*)
- Create new layers, attributes, & measurement units
- Help fix/enhance PHD software
- Unlock Finalized jobs
- Help you

ADMINISTRATOR CONTACT



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- Phone: 517-636-4920
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Justin Schenkel

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REGION PHD LIAISONS

Region
PHD Liaisons
can help too!



Bay: Tyler Lemieux



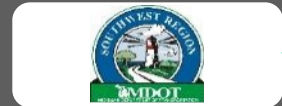
Grand: Bill Loehle



Metro: Marji Zabel



North: Margaret Szajner



Southwest: Kyle Rudlaff



Superior: Alison Hamlin



University: Scott Walter

QUESTIONS / FEEDBACK

Thank You!



QUESTIONS



FEEDBACK